

Fig. 1
PRIOR ART

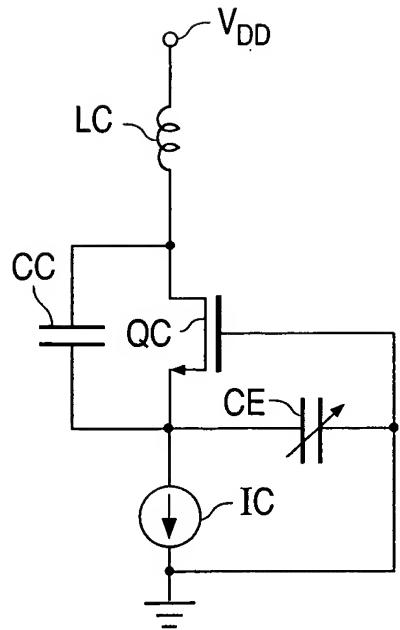
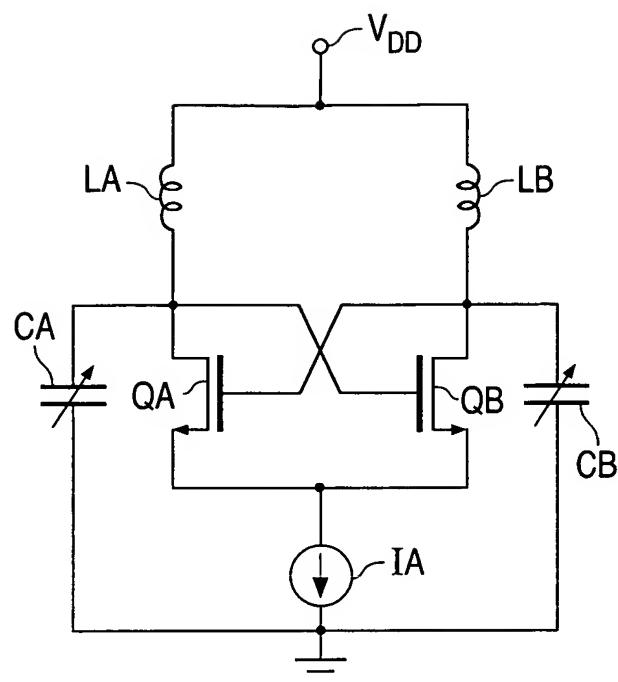


Fig. 2a
PRIOR ART

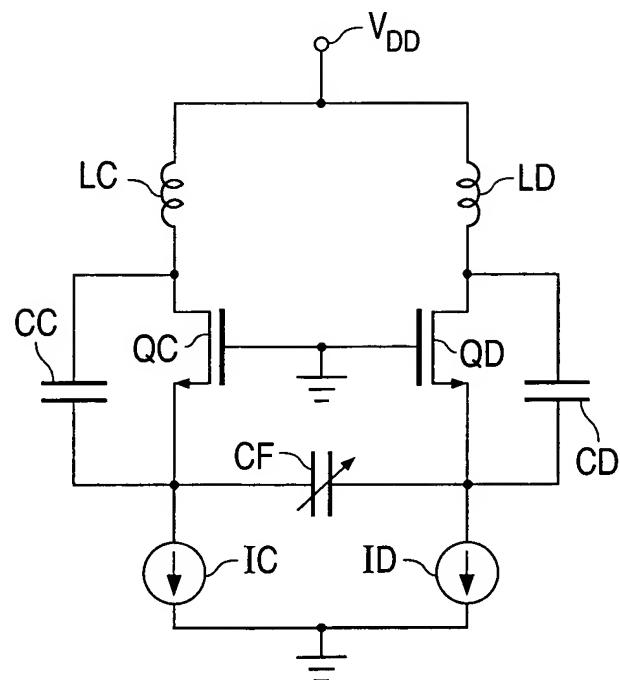


Fig. 2b
PRIOR ART

Fig. 3 PRIOR ART

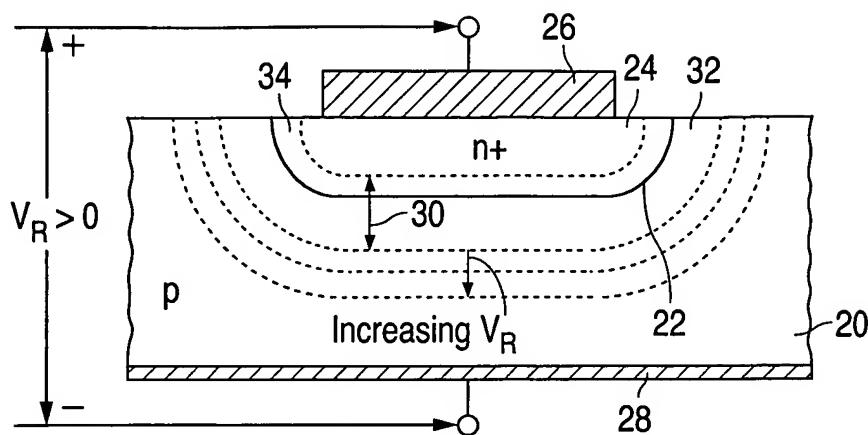
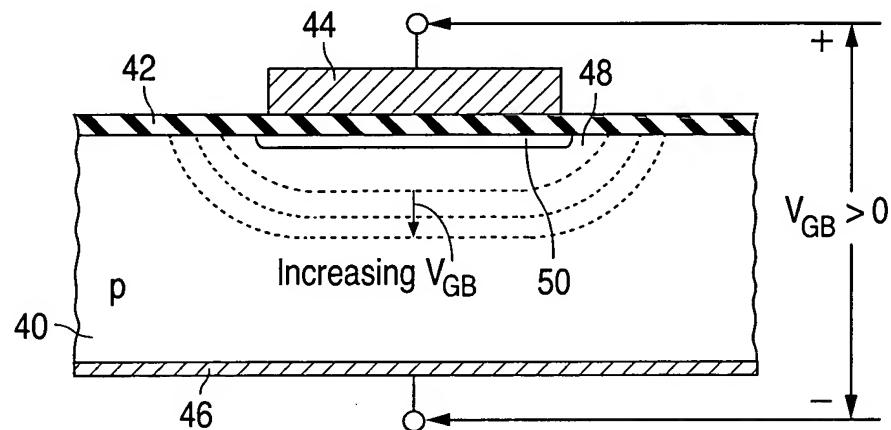


Fig. 4 PRIOR ART



The graph plots the Capacitance Ratio C_{VA}/C_{GDA} on the y-axis (ranging from 0.0 to 1.0) against the Gate-to-Body Voltage V_{GB} (V) on the x-axis (ranging from -3 to 5). A solid line represents the capacitance ratio. The graph is divided into three regions:

- Accumulation:** The region where the capacitance ratio is greater than 1.0, starting from $V_{GB} = -3$ and ending at $V_{GB} = 0$.
- Low-frequency inversion:** The region where the capacitance ratio is between 0.0 and 1.0, starting at $V_{GB} = 0$ and ending at $V_{GB} = 4$. It is bounded by a dashed line labeled 'B'.
- High-frequency inversion and High-frequency deep depletion:** The region where the capacitance ratio is less than 1.0, starting at $V_{GB} = 4$ and extending to $V_{GB} = 5$. It is bounded by a solid line labeled 'C'.

A vertical dashed line at $V_{GB} = V_{TO}$ marks the threshold voltage, where the capacitance ratio is 0.3. The point on the curve at $V_{GB} = V_{TO}$ is highlighted with a circle.

Fig. 5 PRIOR ART

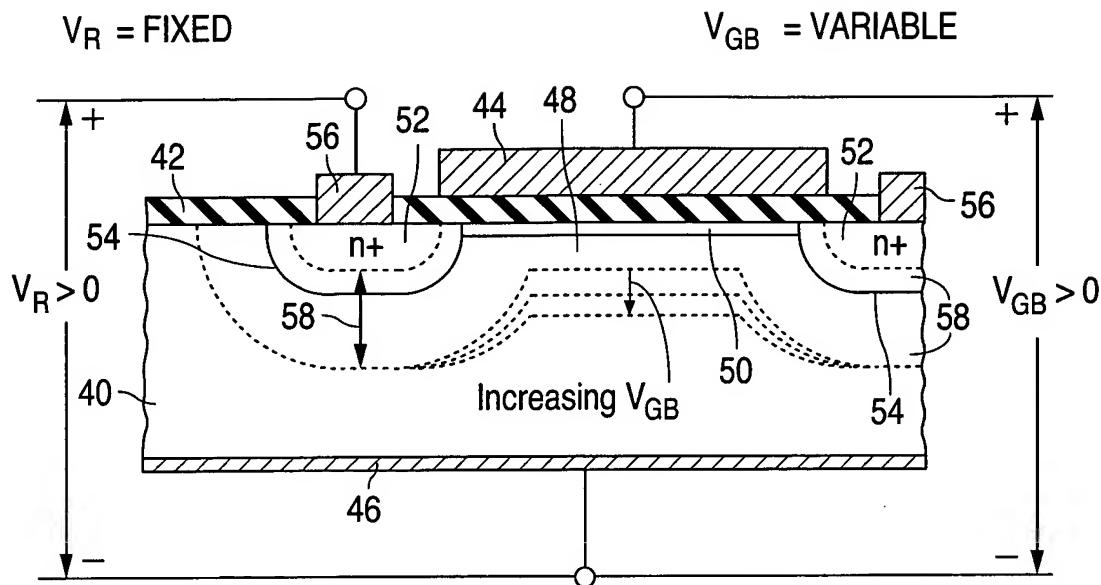


Fig. 6
PRIOR ART

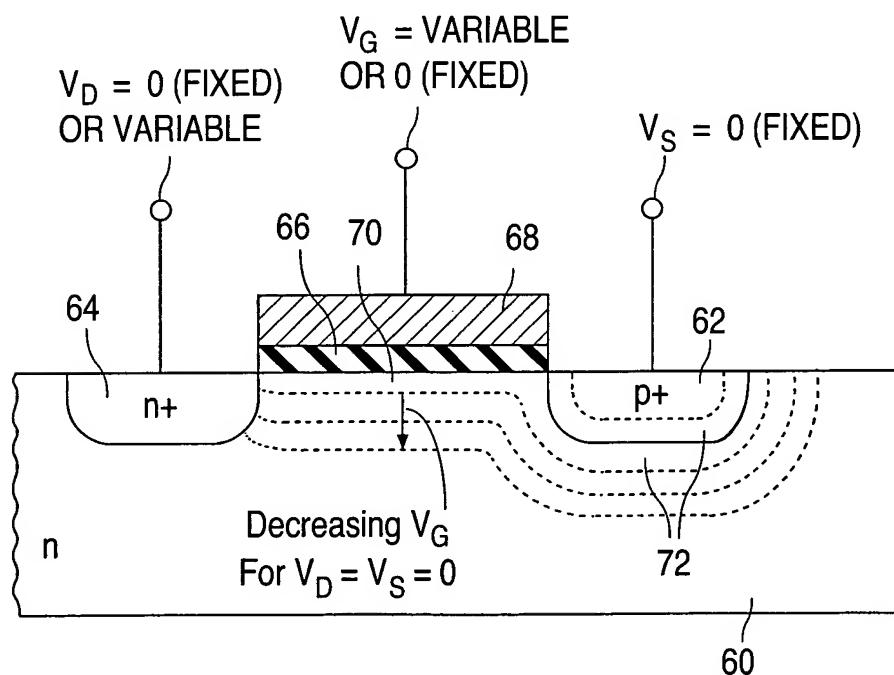


Fig. 7
PRIOR ART

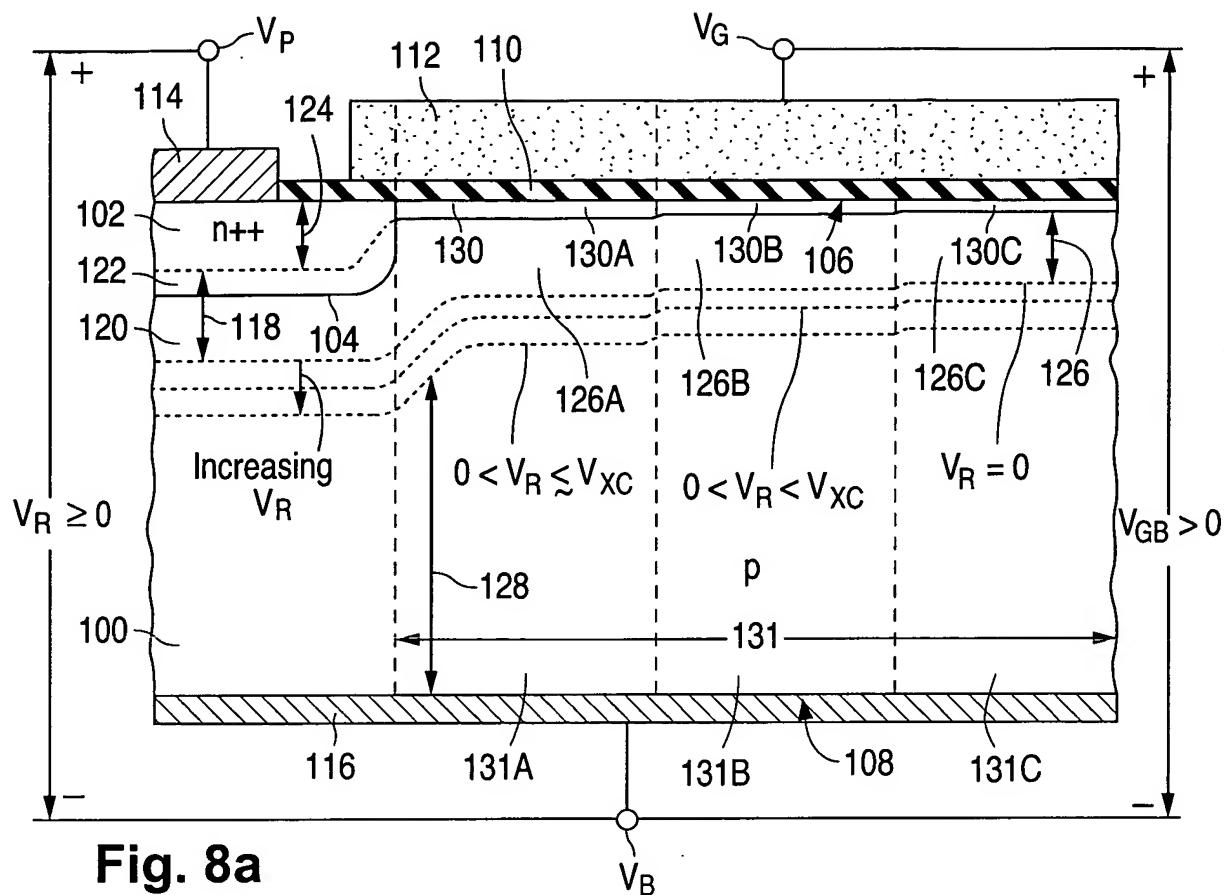


Fig. 8a

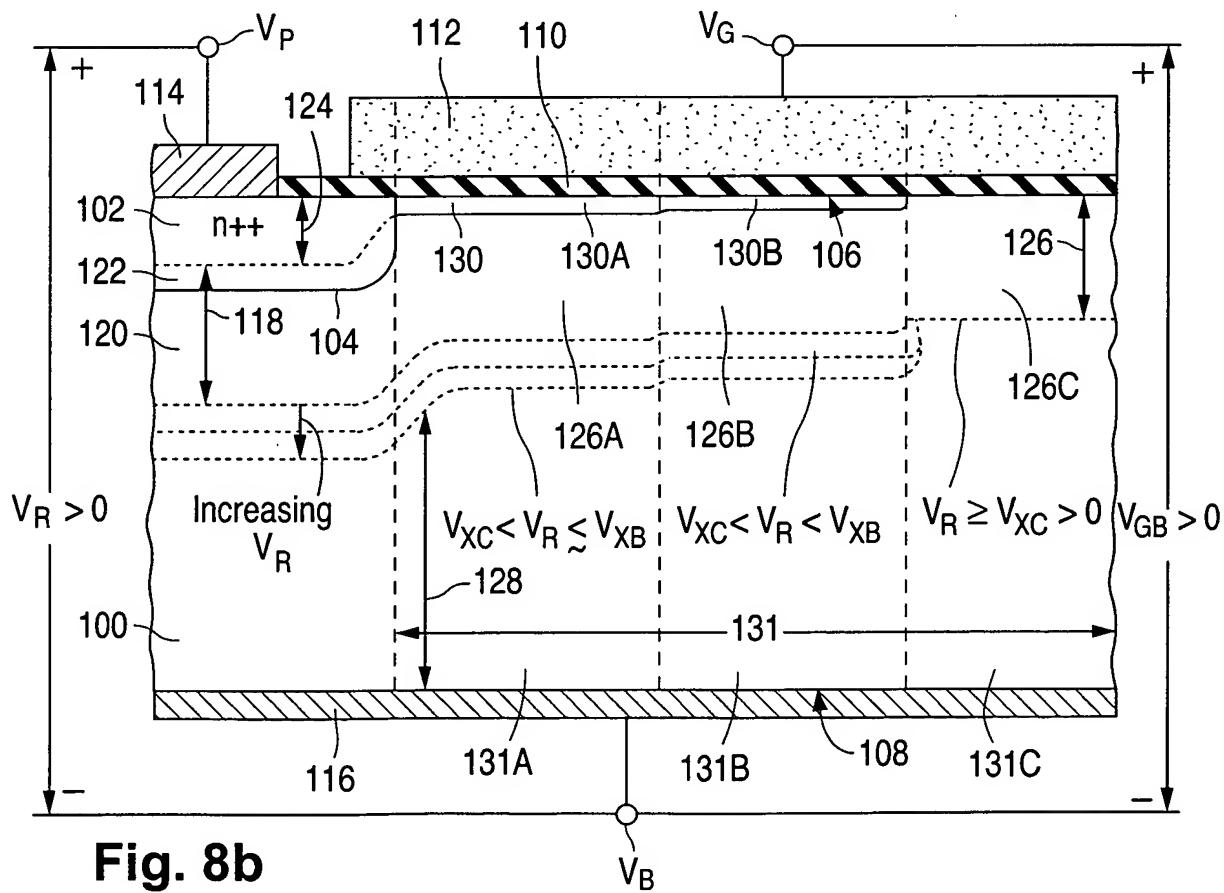
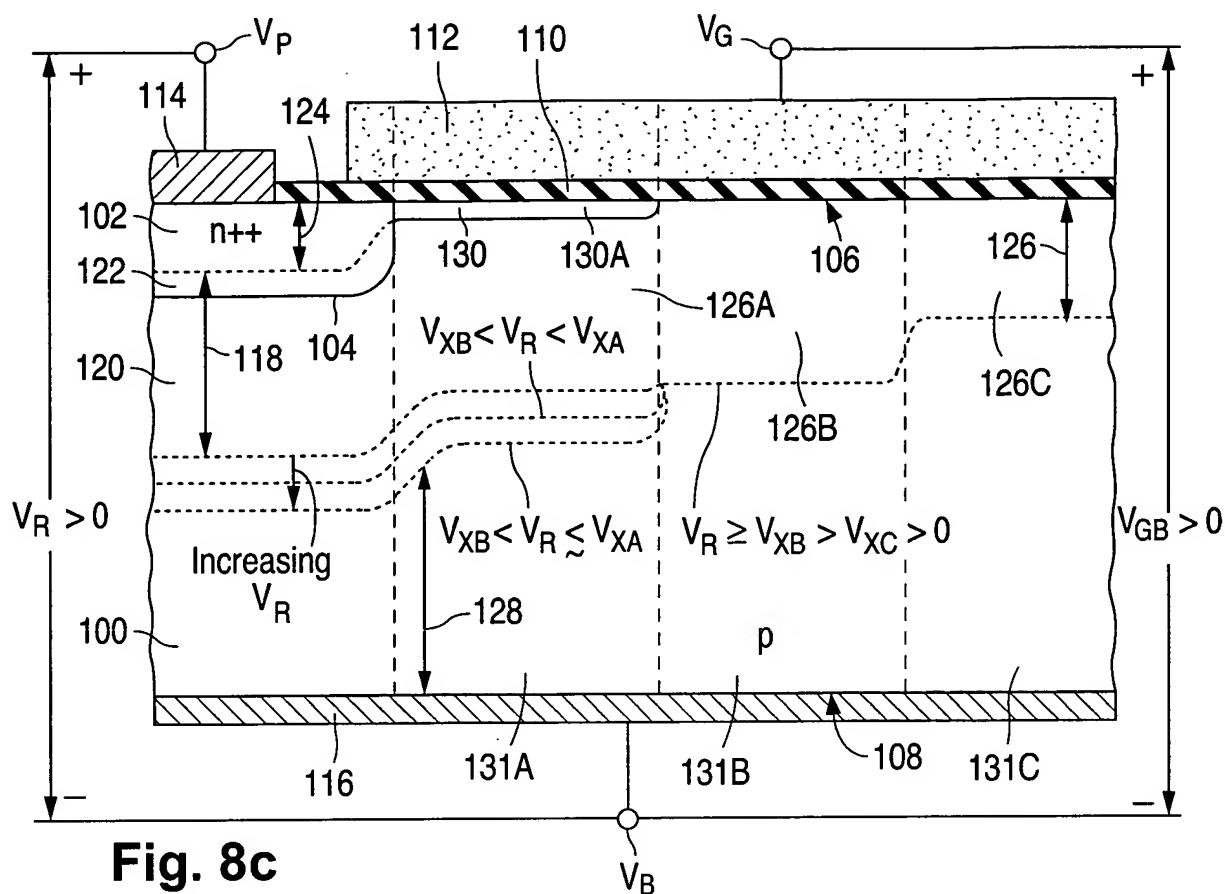
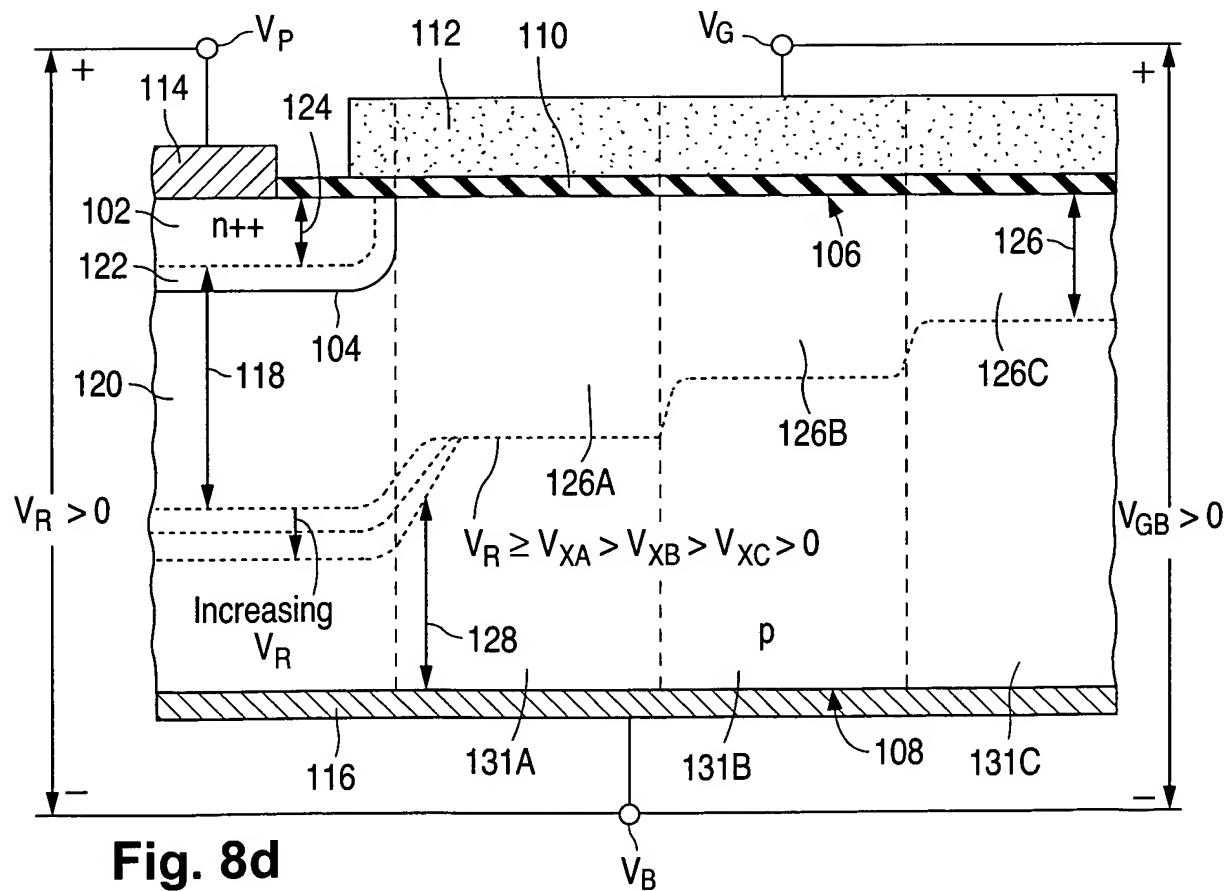


Fig. 8b

**Fig. 8c****Fig. 8d**

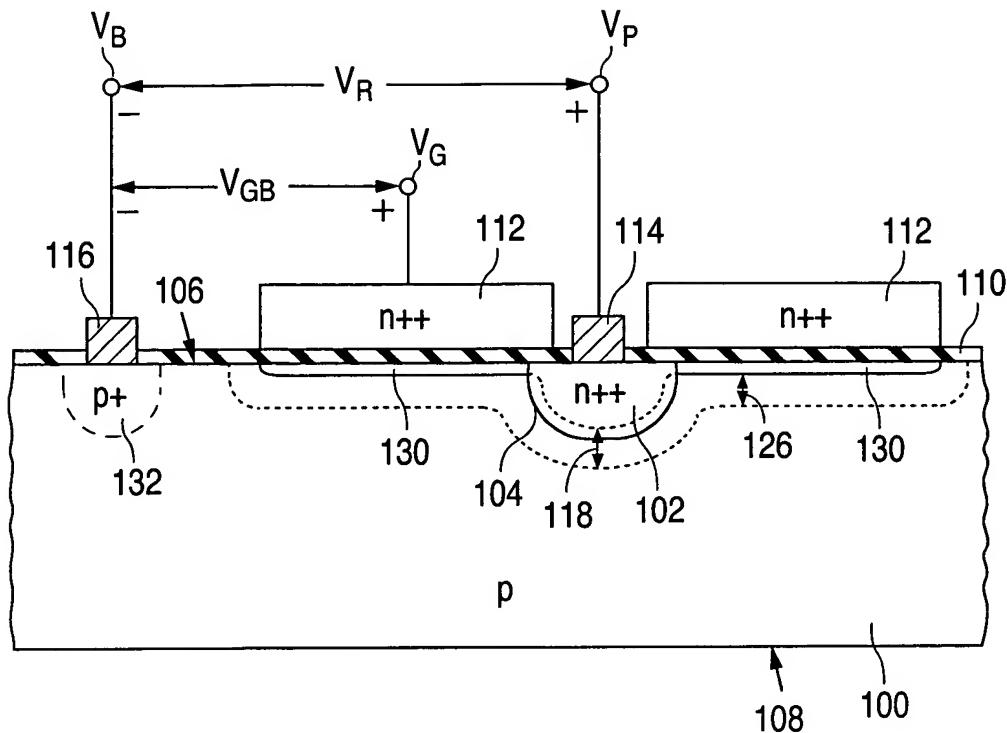


Fig. 9a

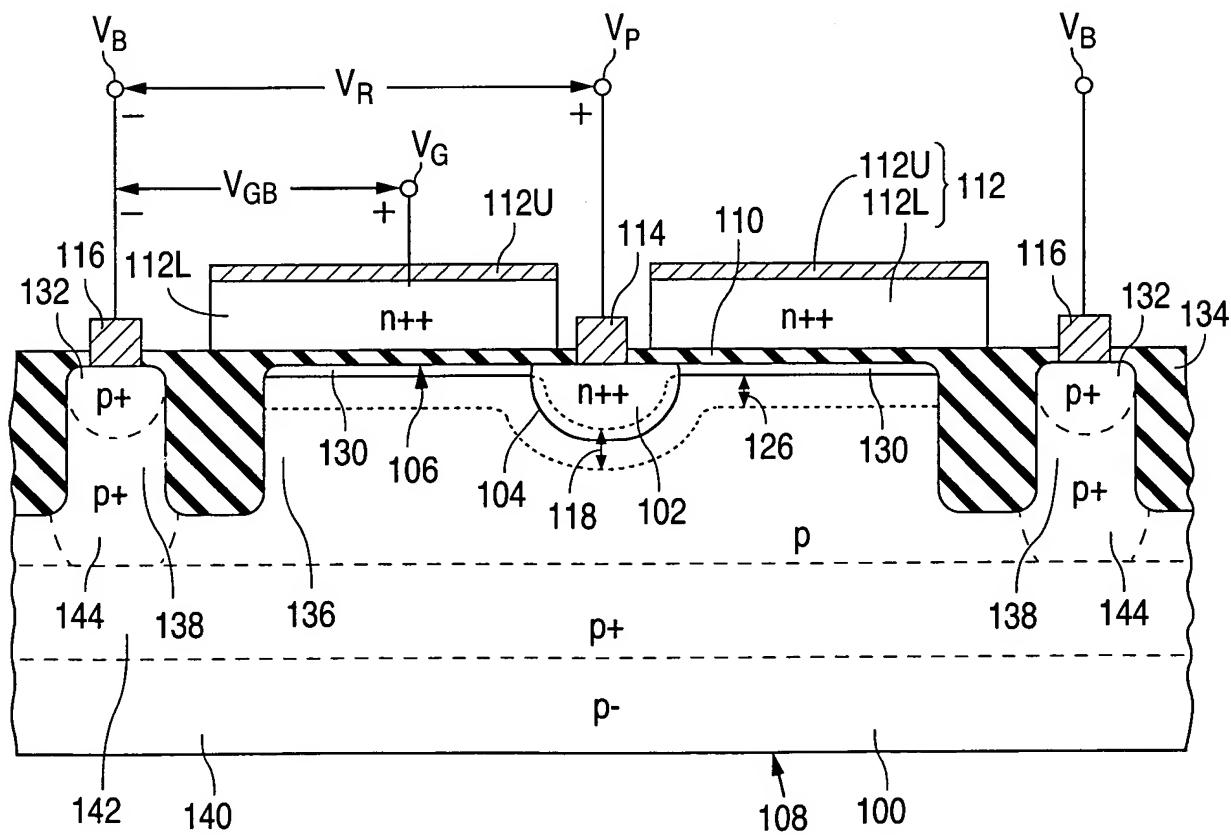


Fig. 9b

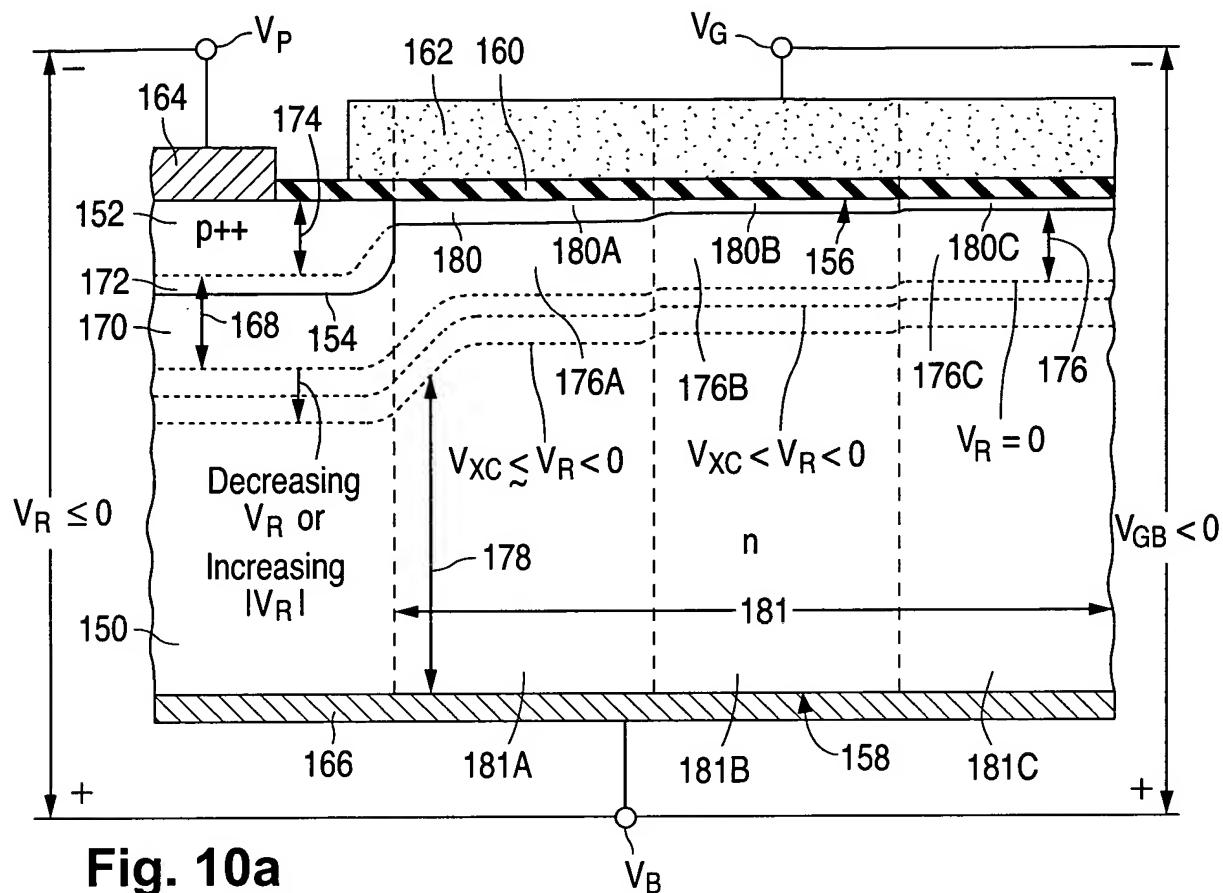


Fig. 10a

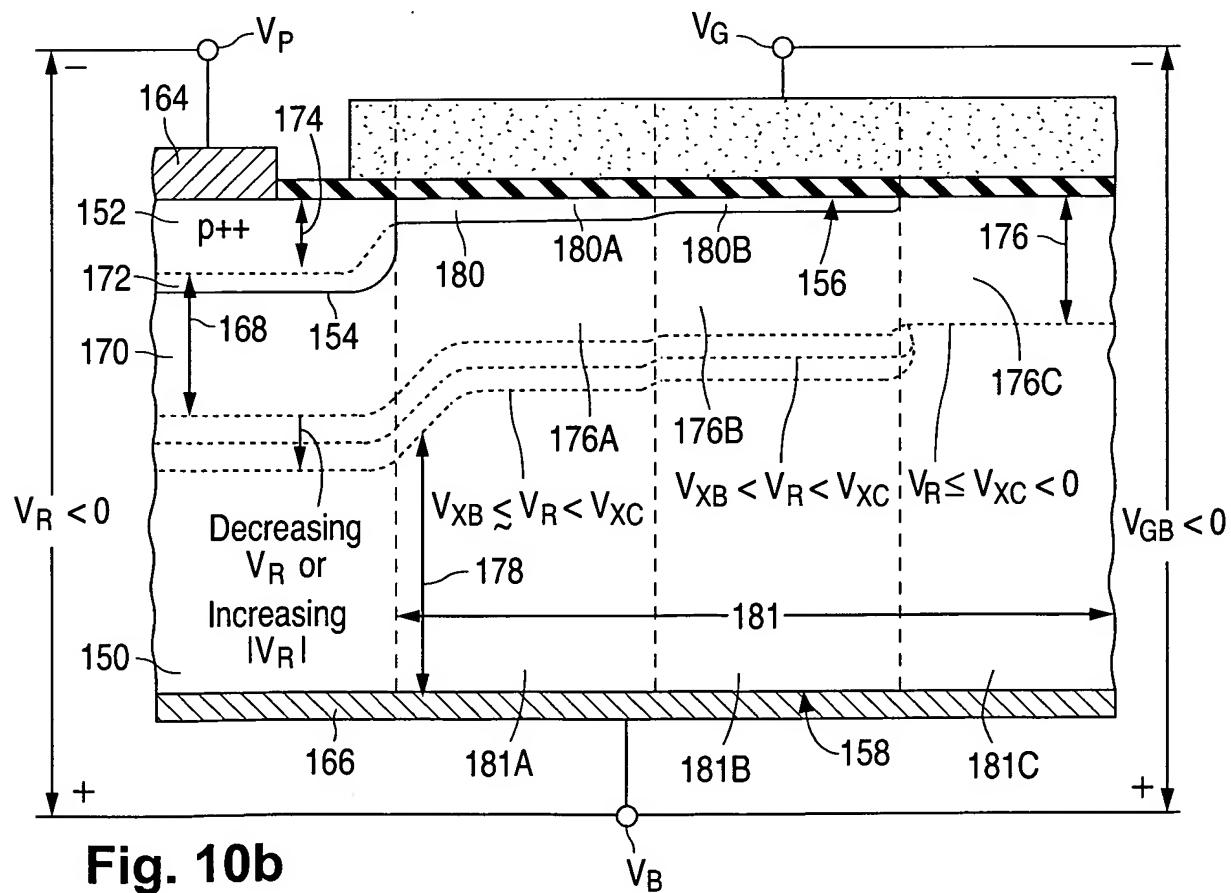


Fig. 10b

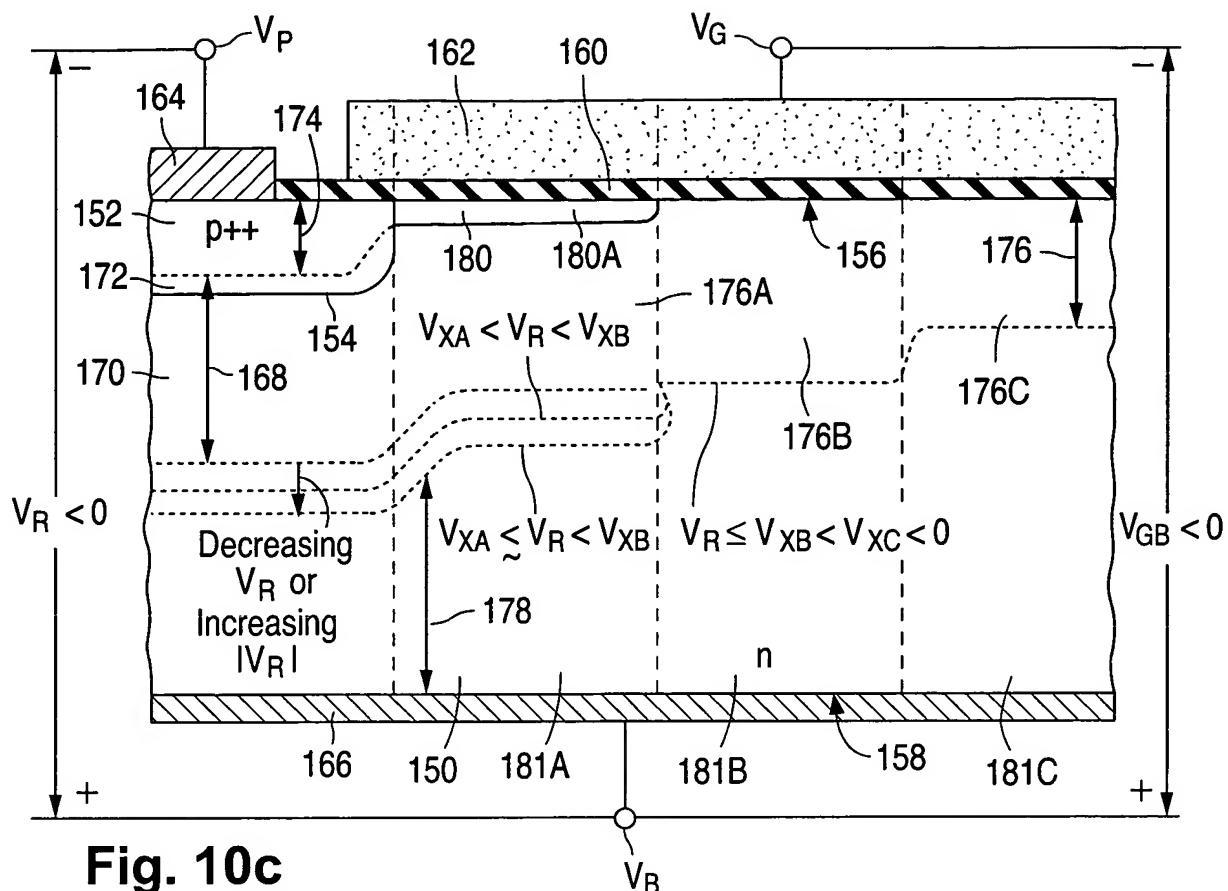


Fig. 10c

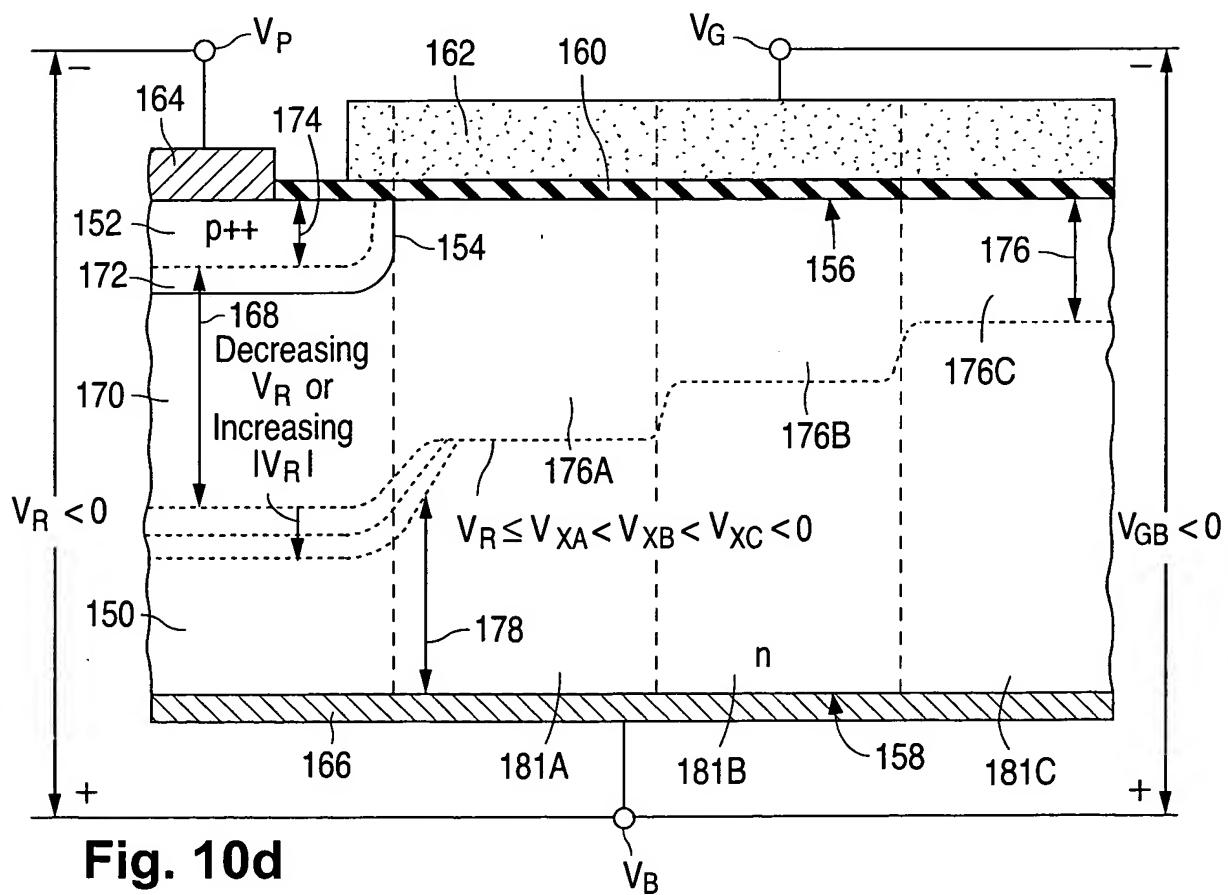


Fig. 10d

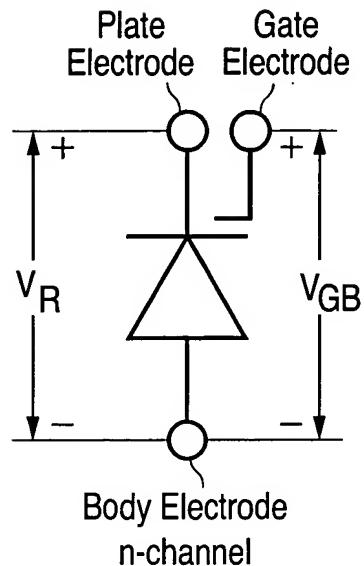


Fig. 11a

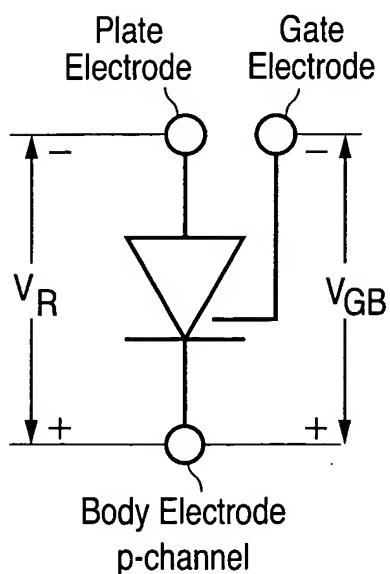


Fig. 11b

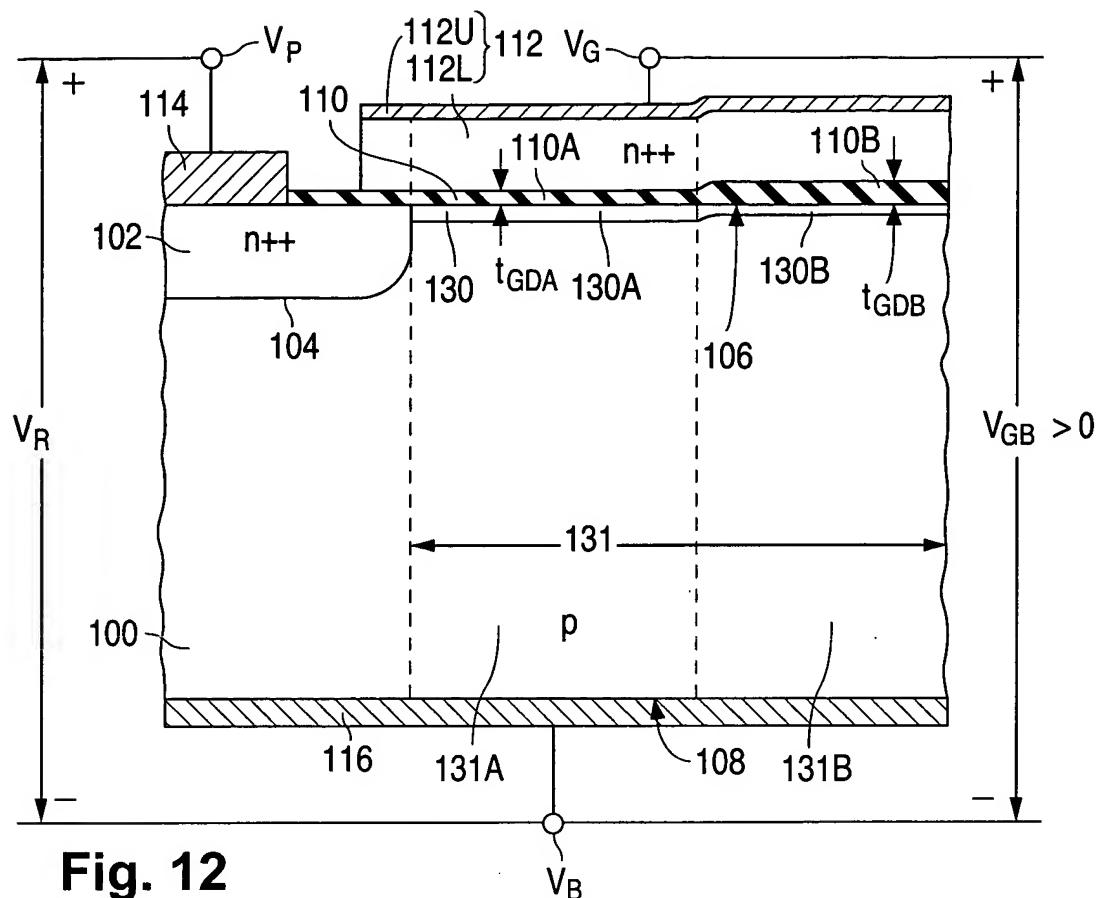


Fig. 12

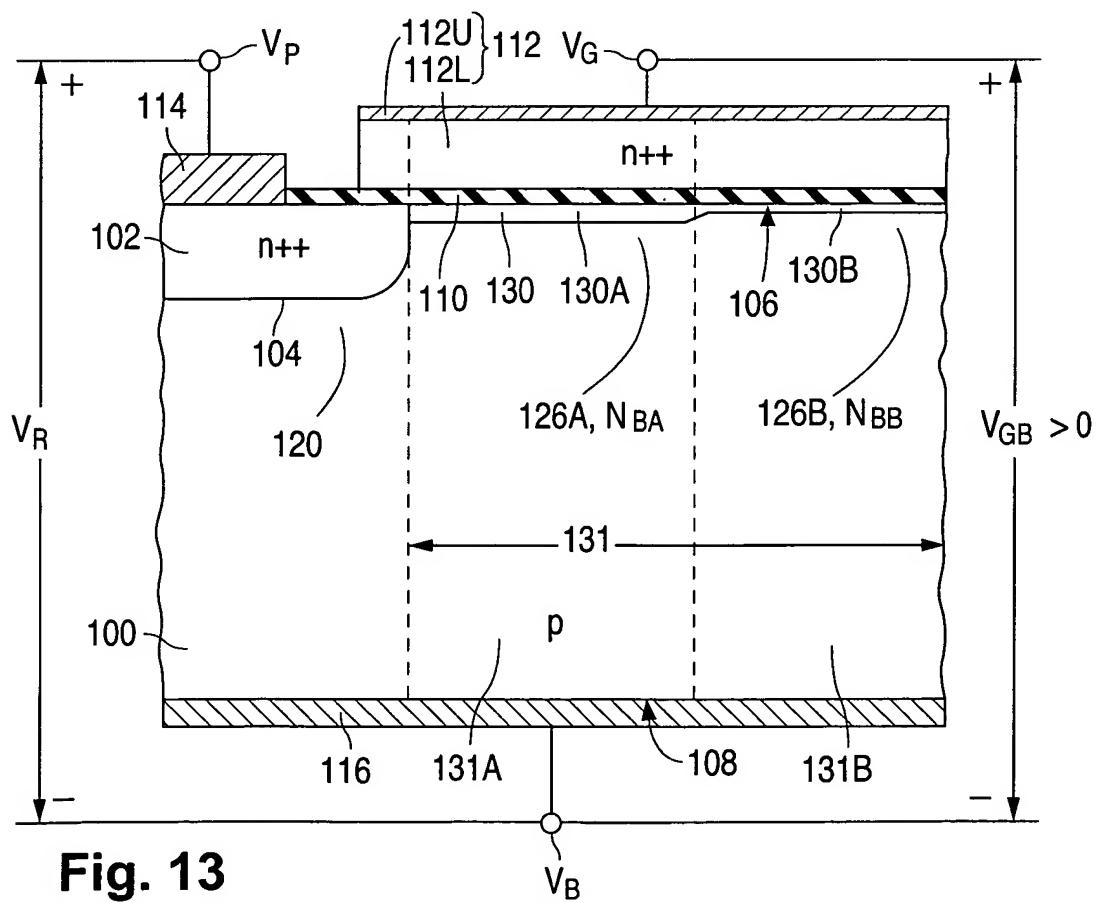


Fig. 13

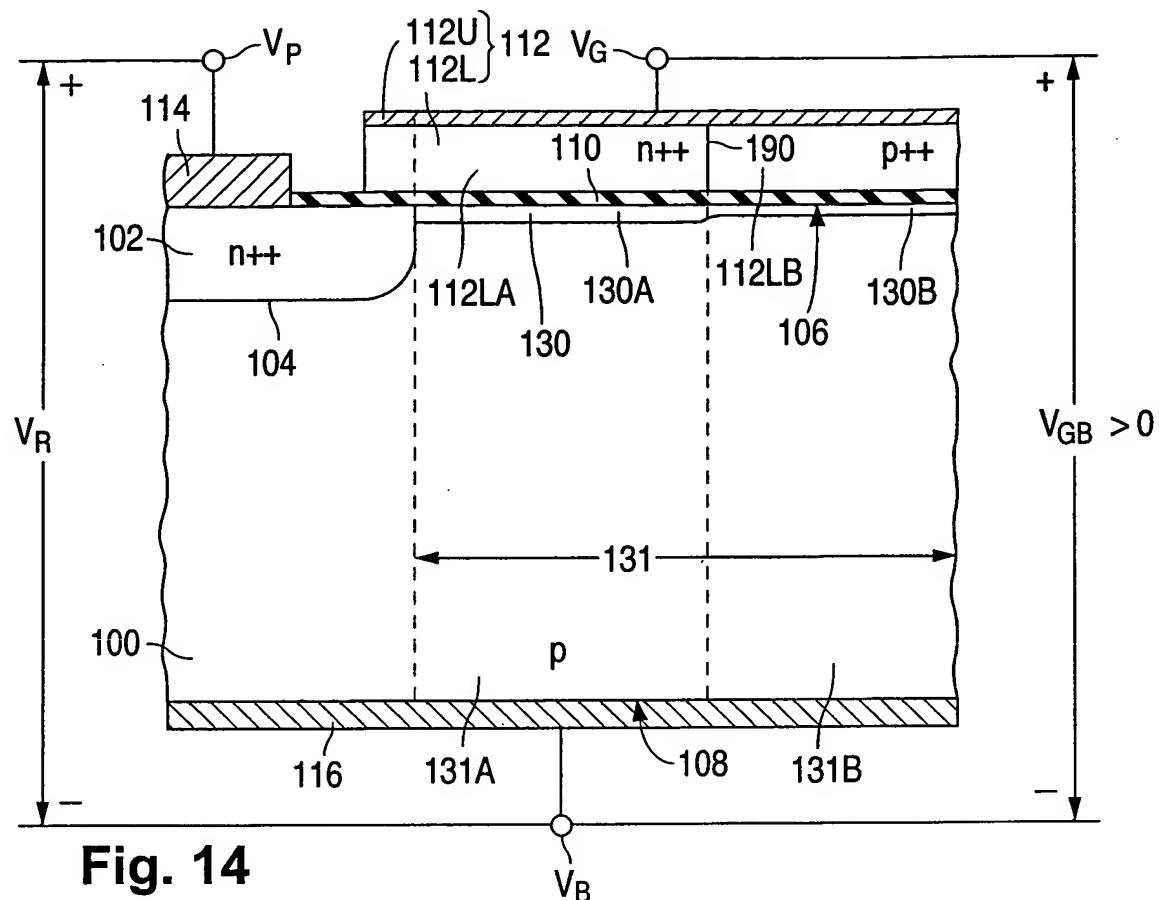


Fig. 14

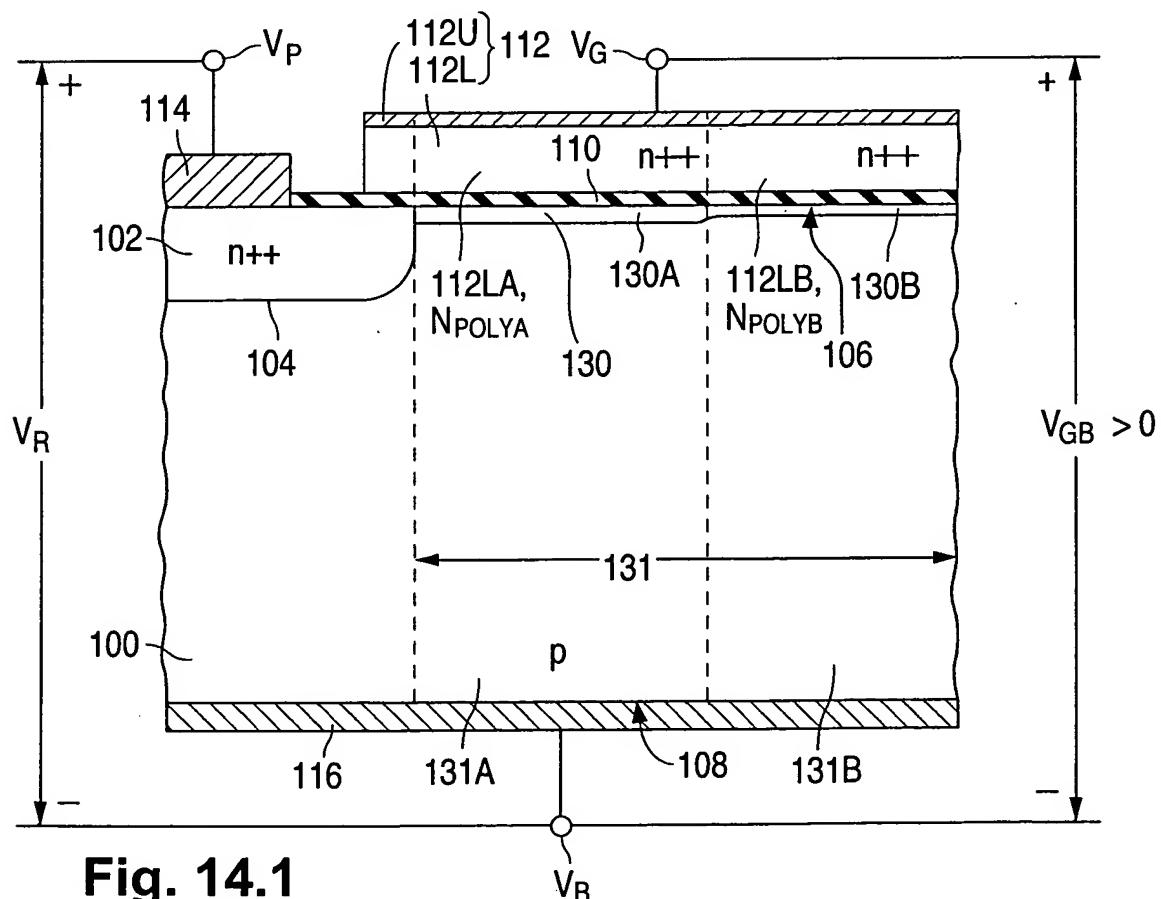


Fig. 14.1

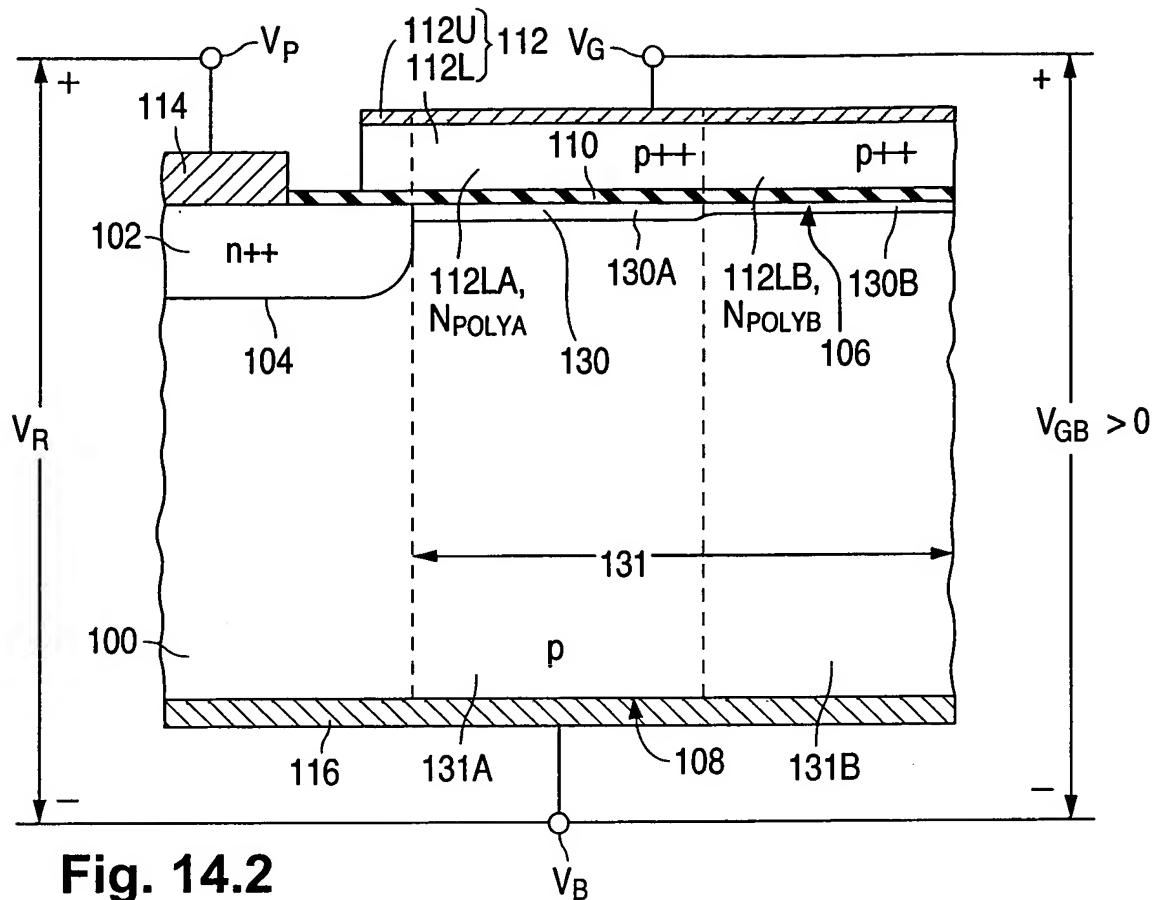


Fig. 14.2

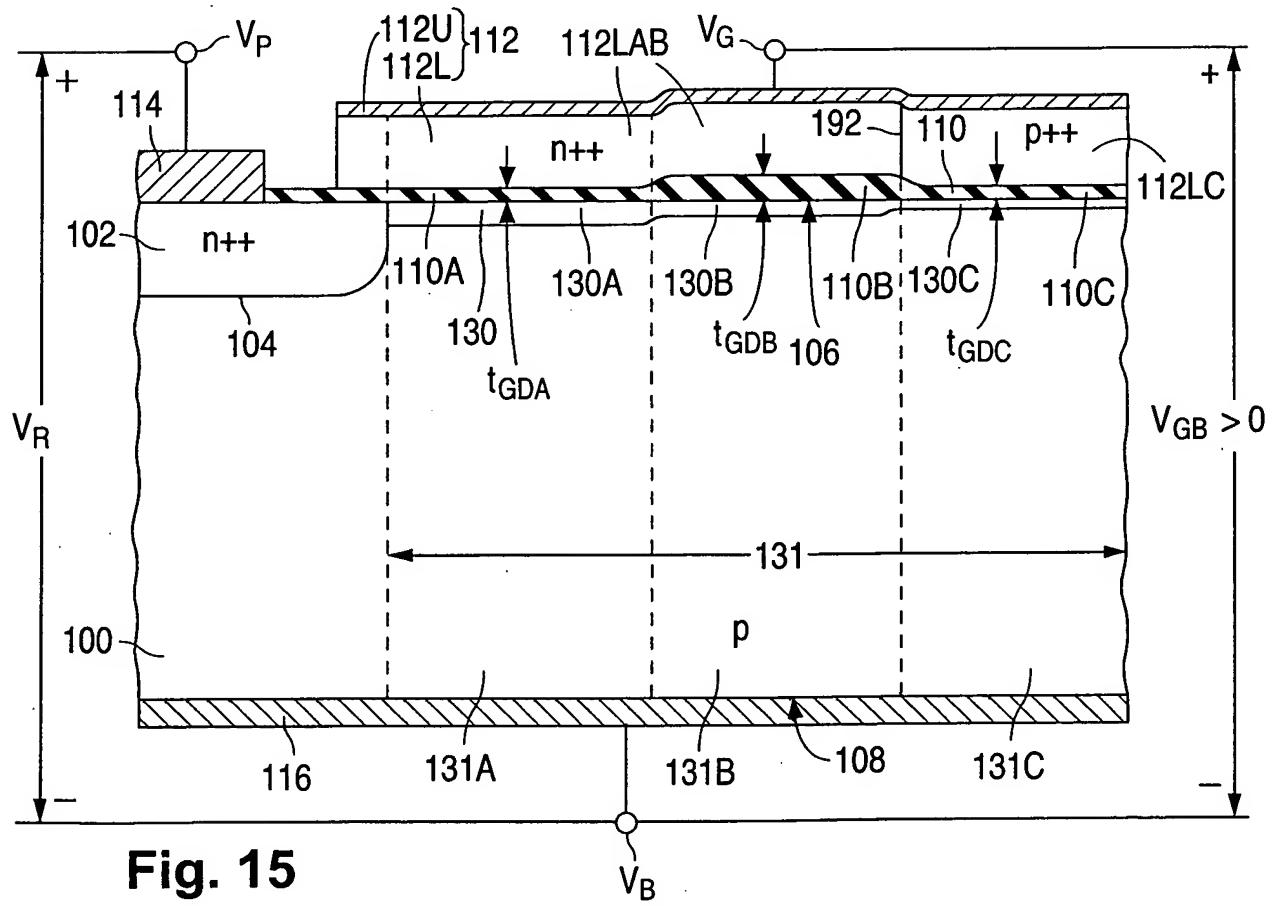


Fig. 15

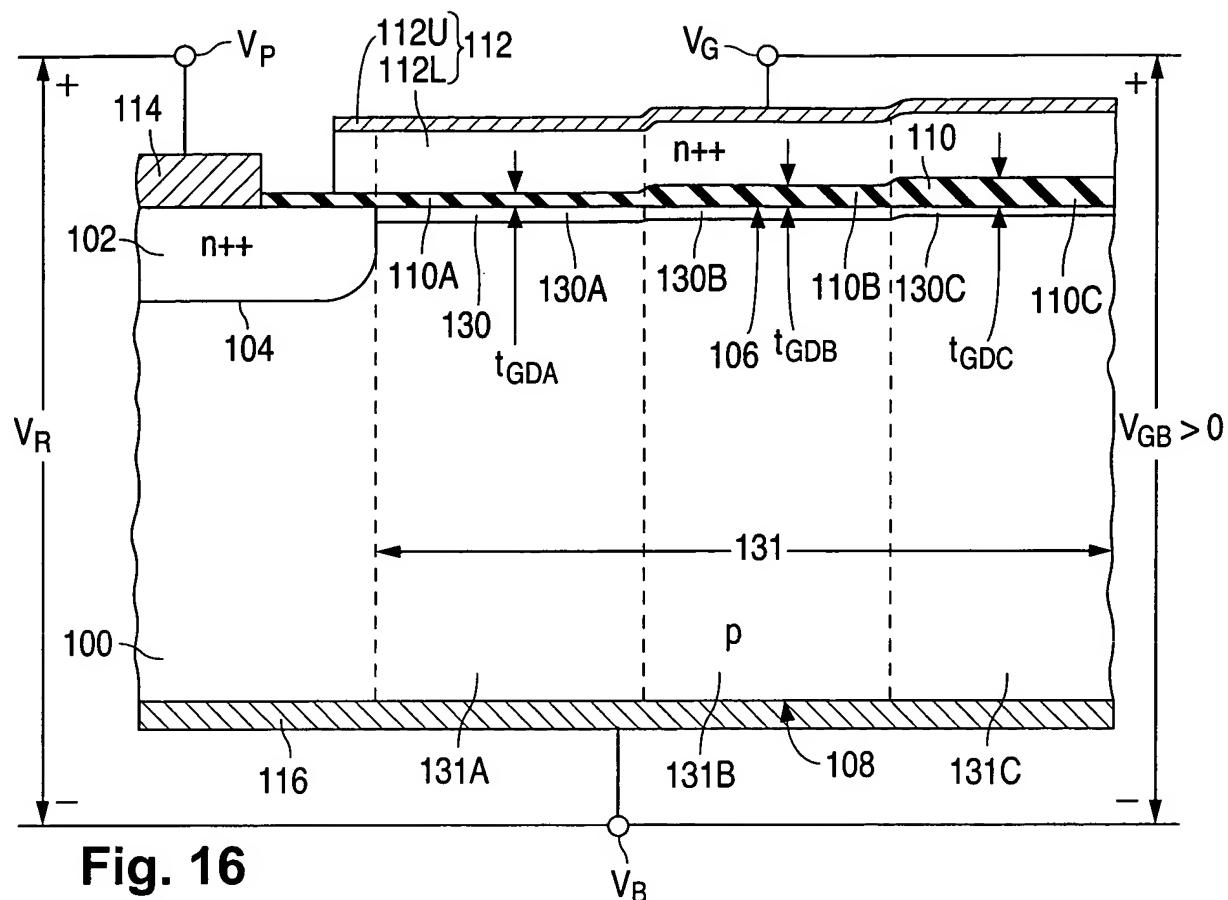


Fig. 16

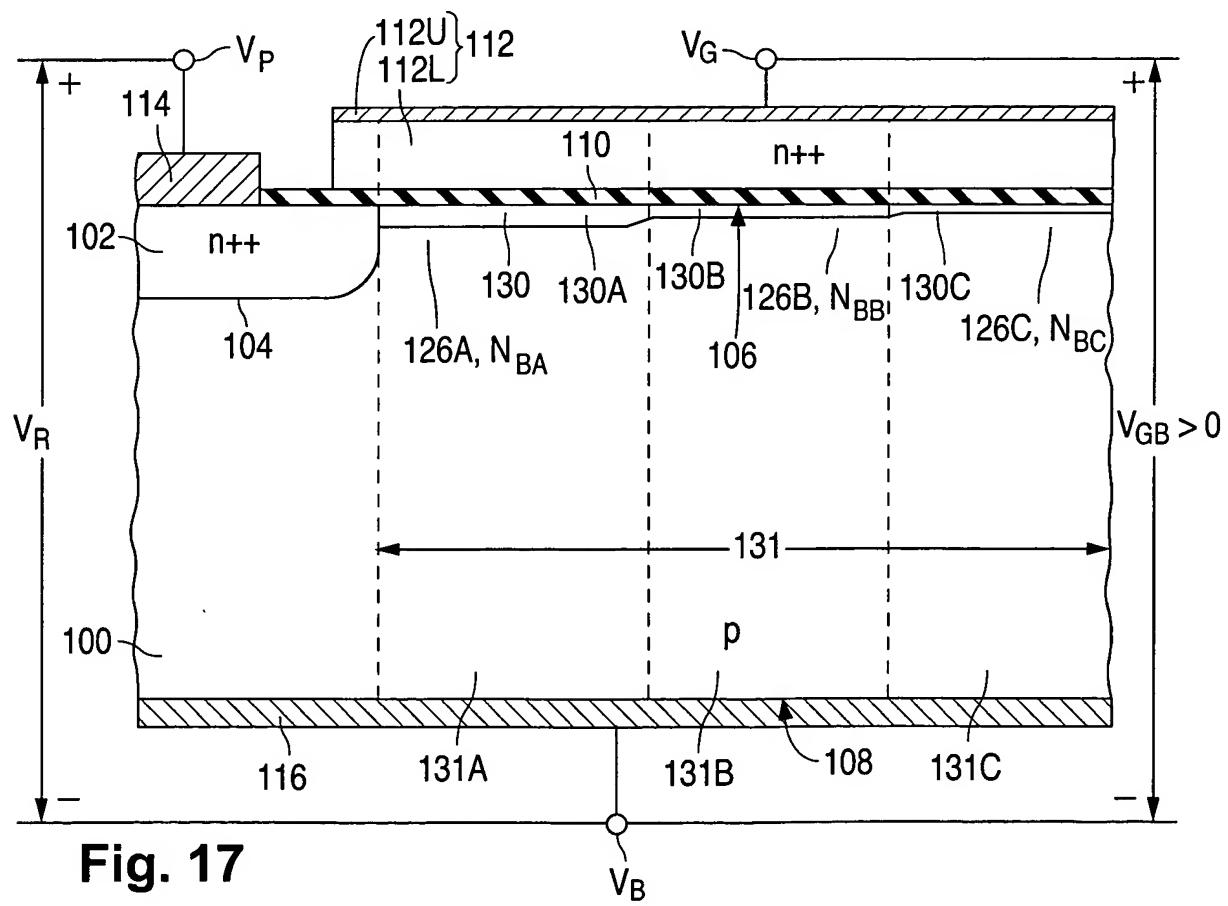
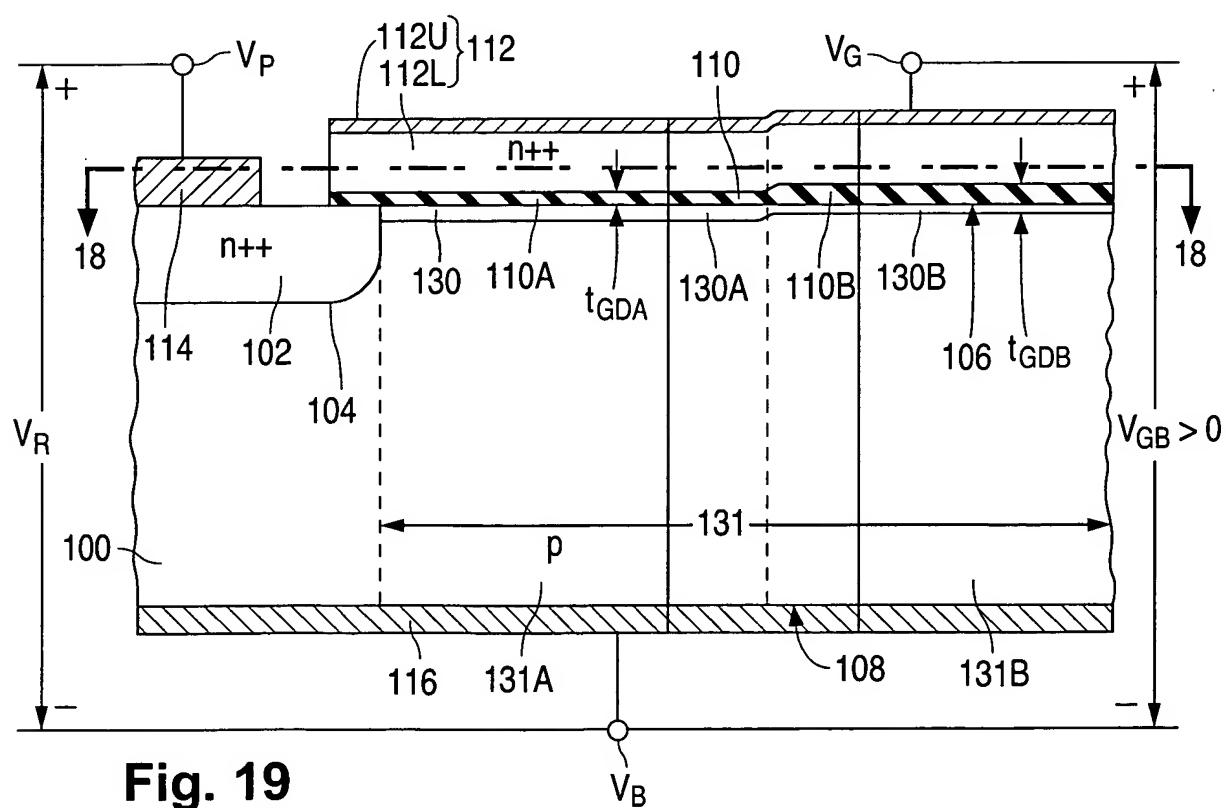
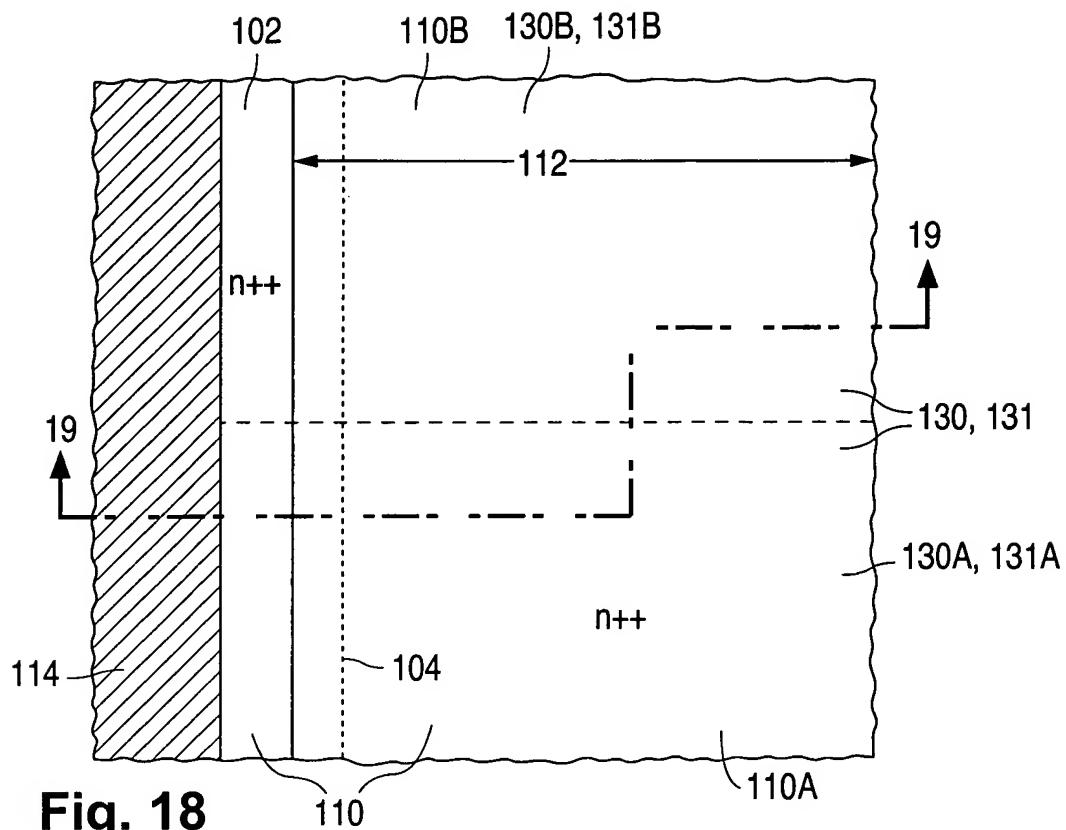
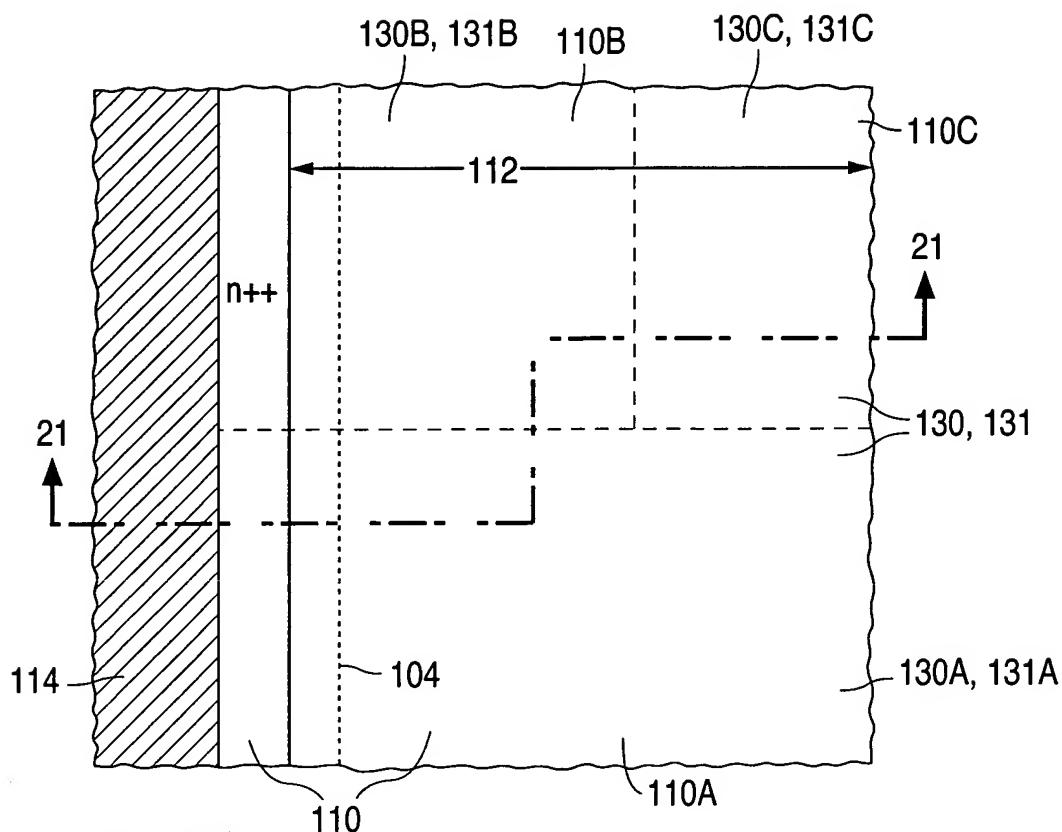
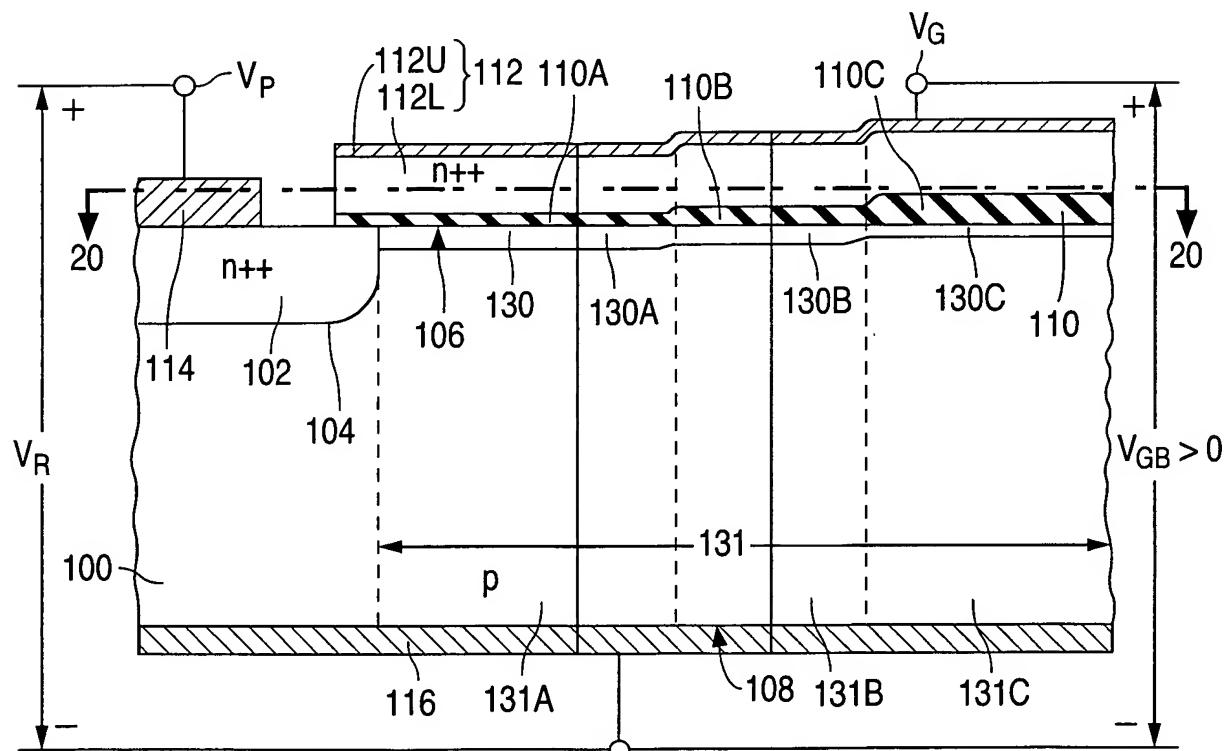


Fig. 17



**Fig. 20****Fig. 21**

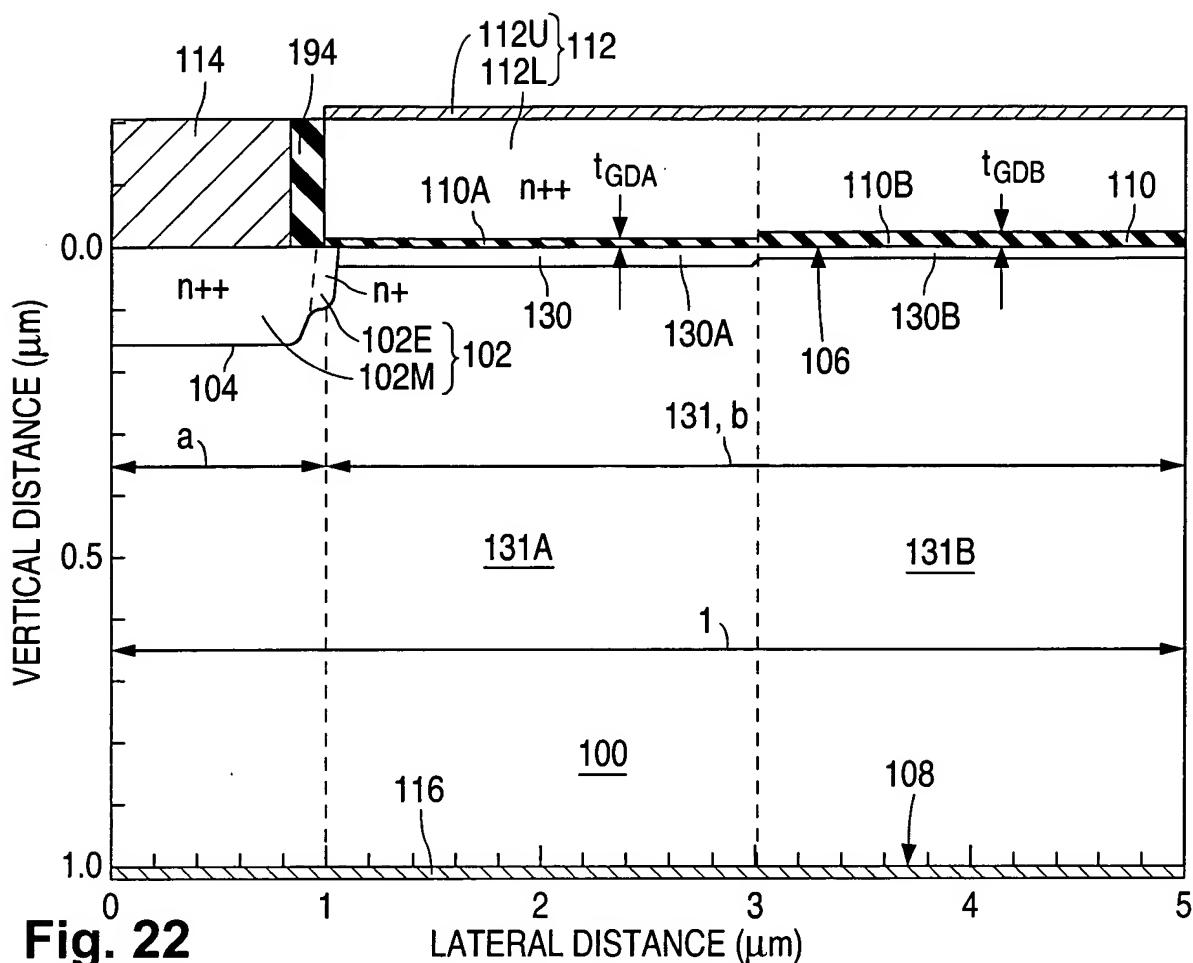


Fig. 22

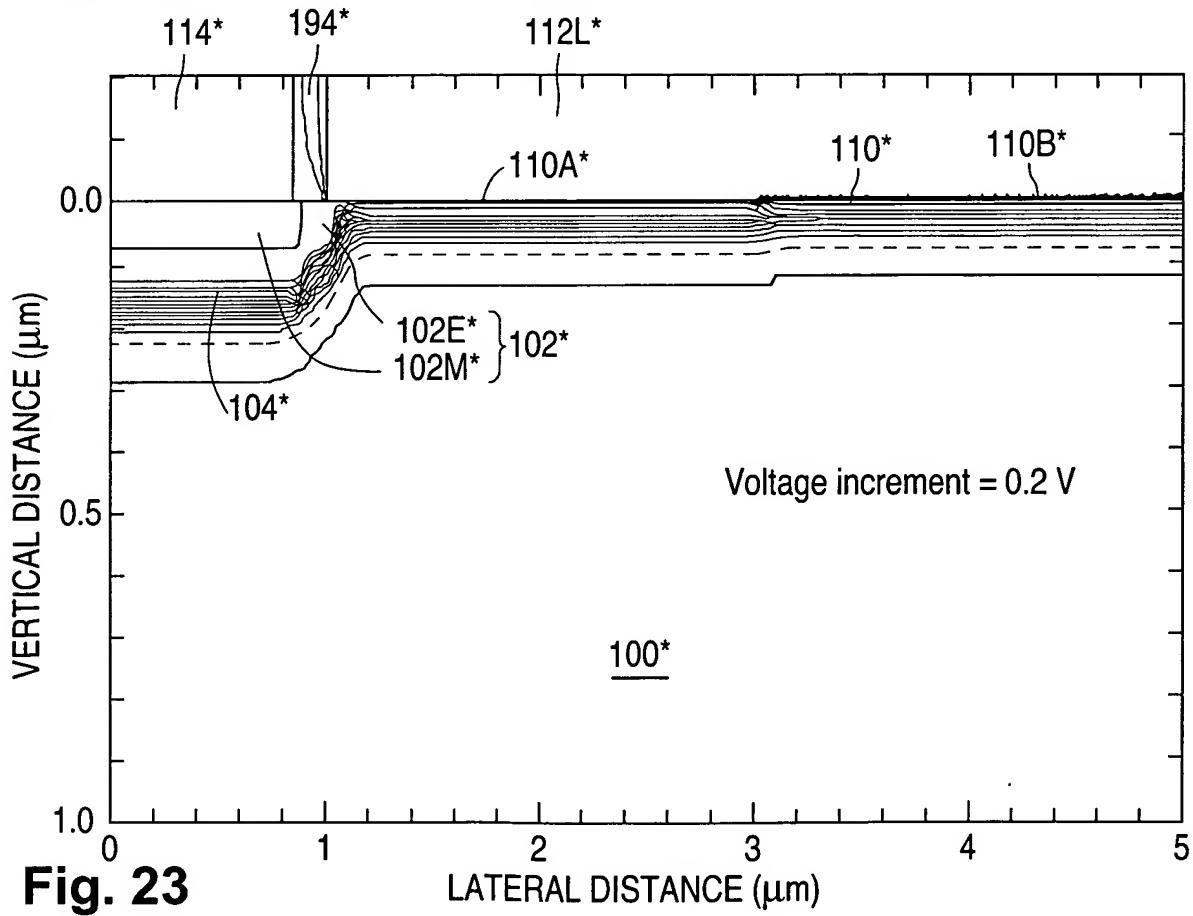
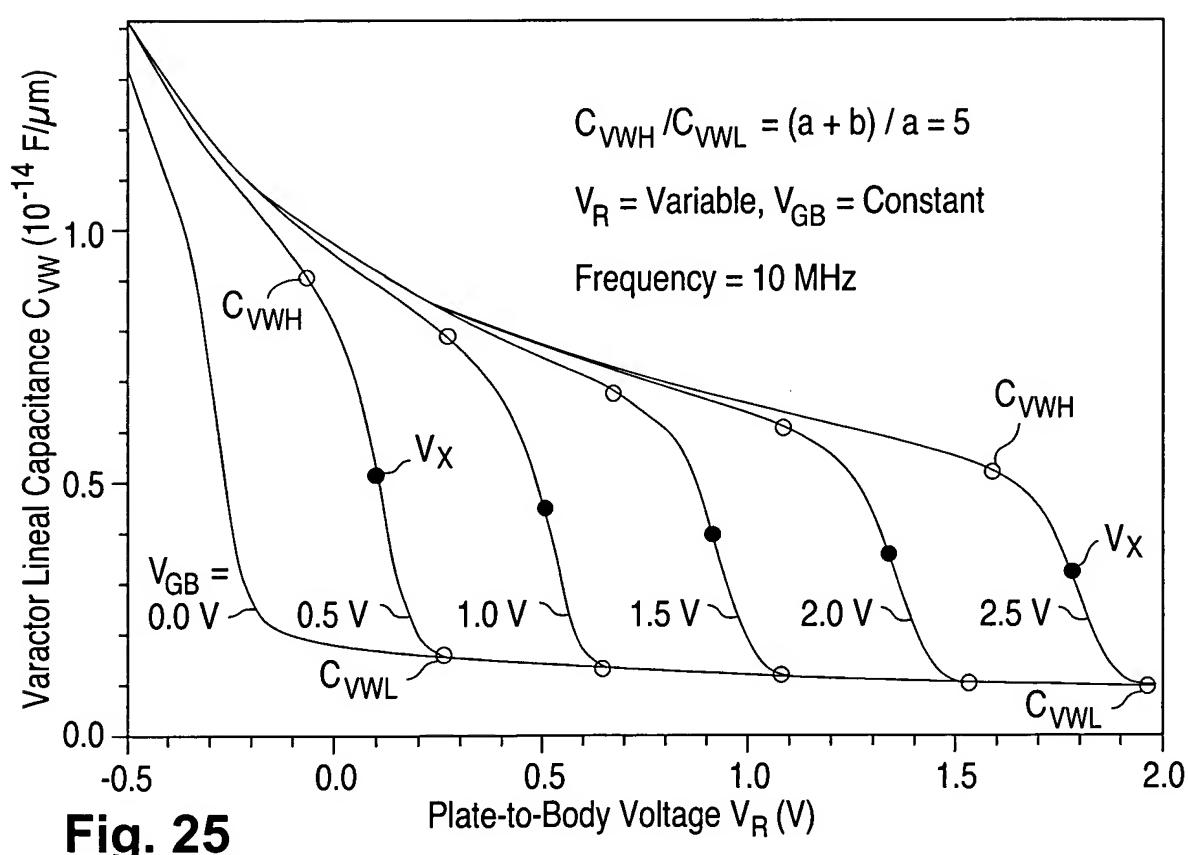
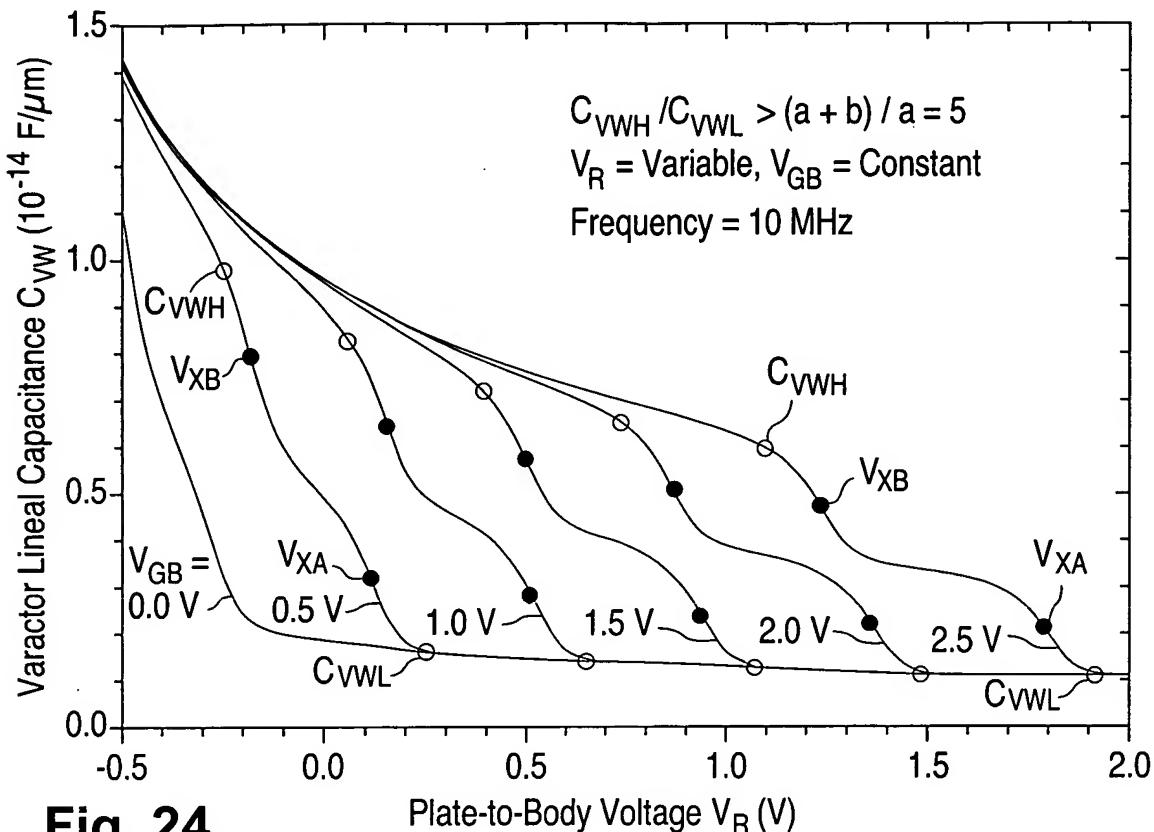


Fig. 23



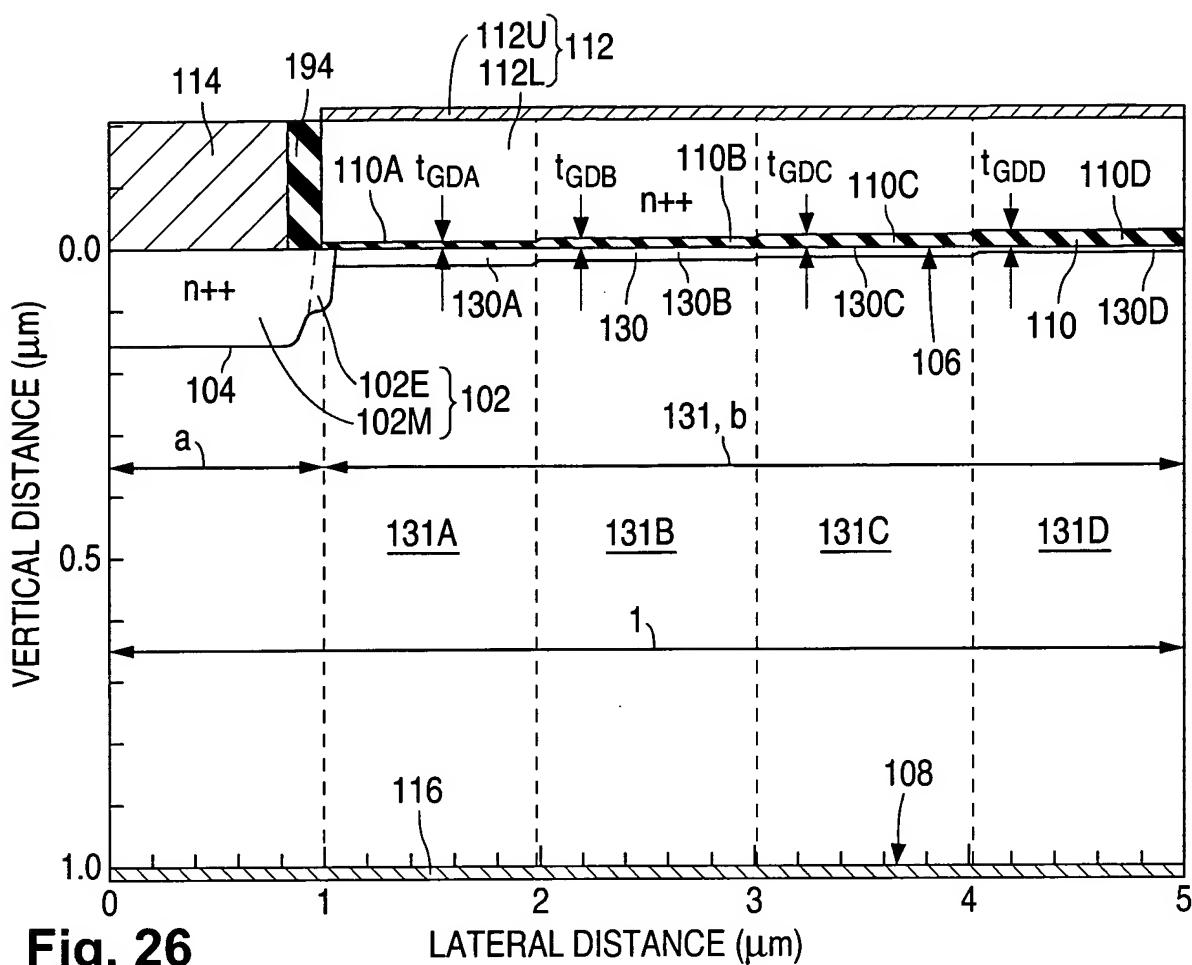


Fig. 26

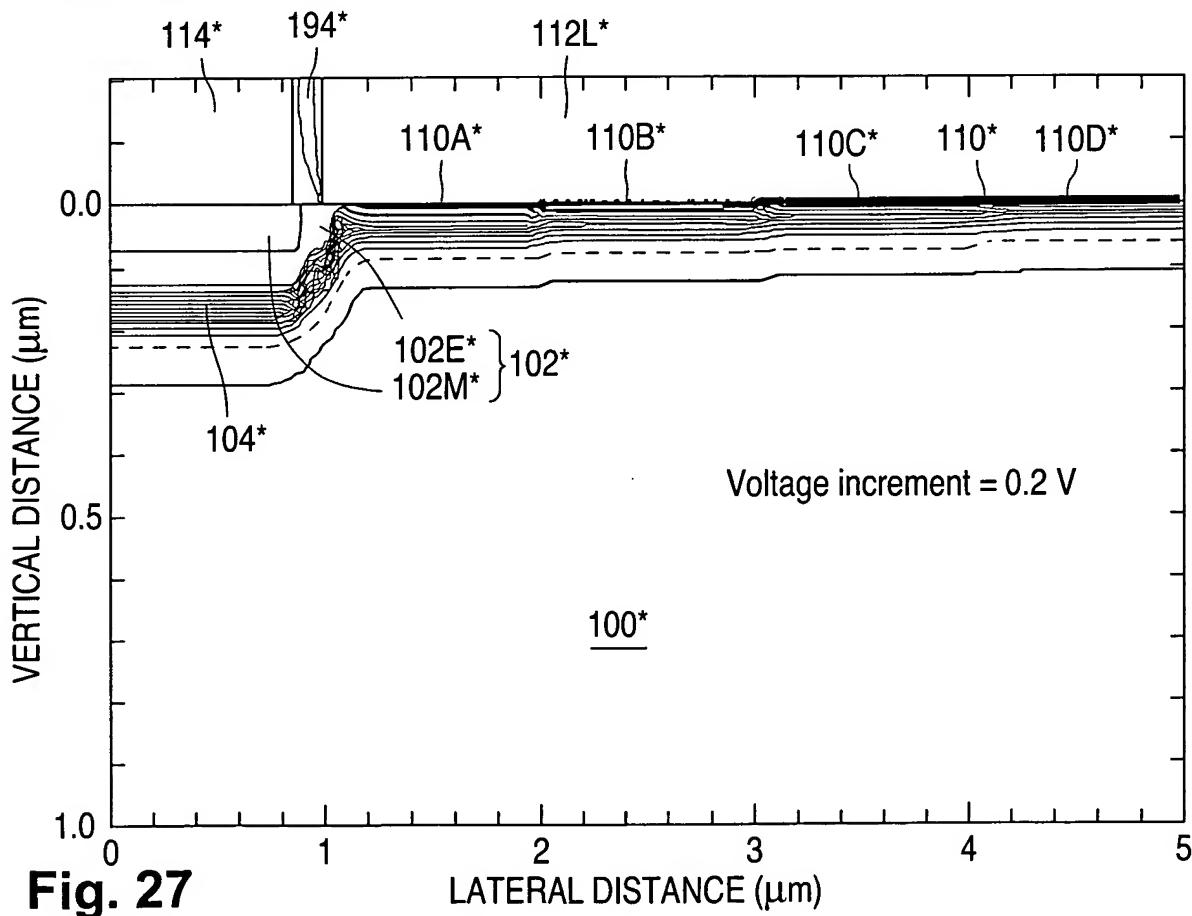


Fig. 27

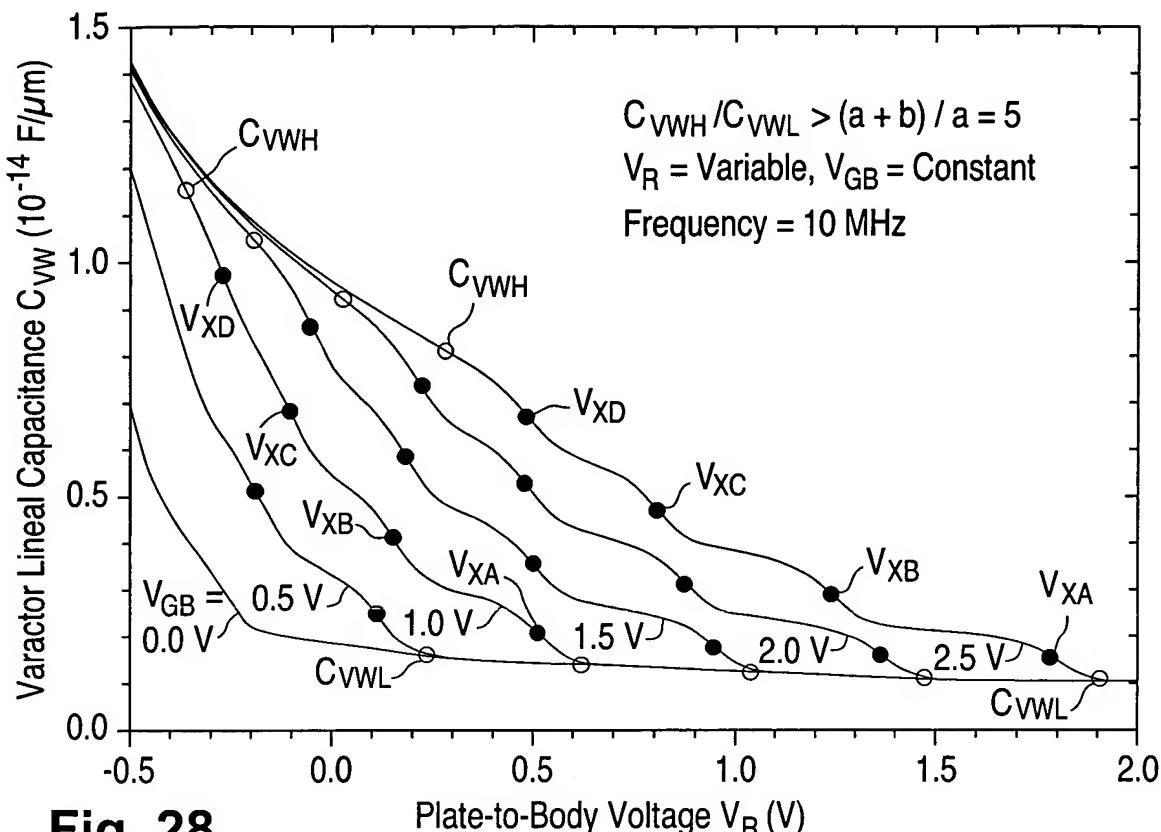


Fig. 28

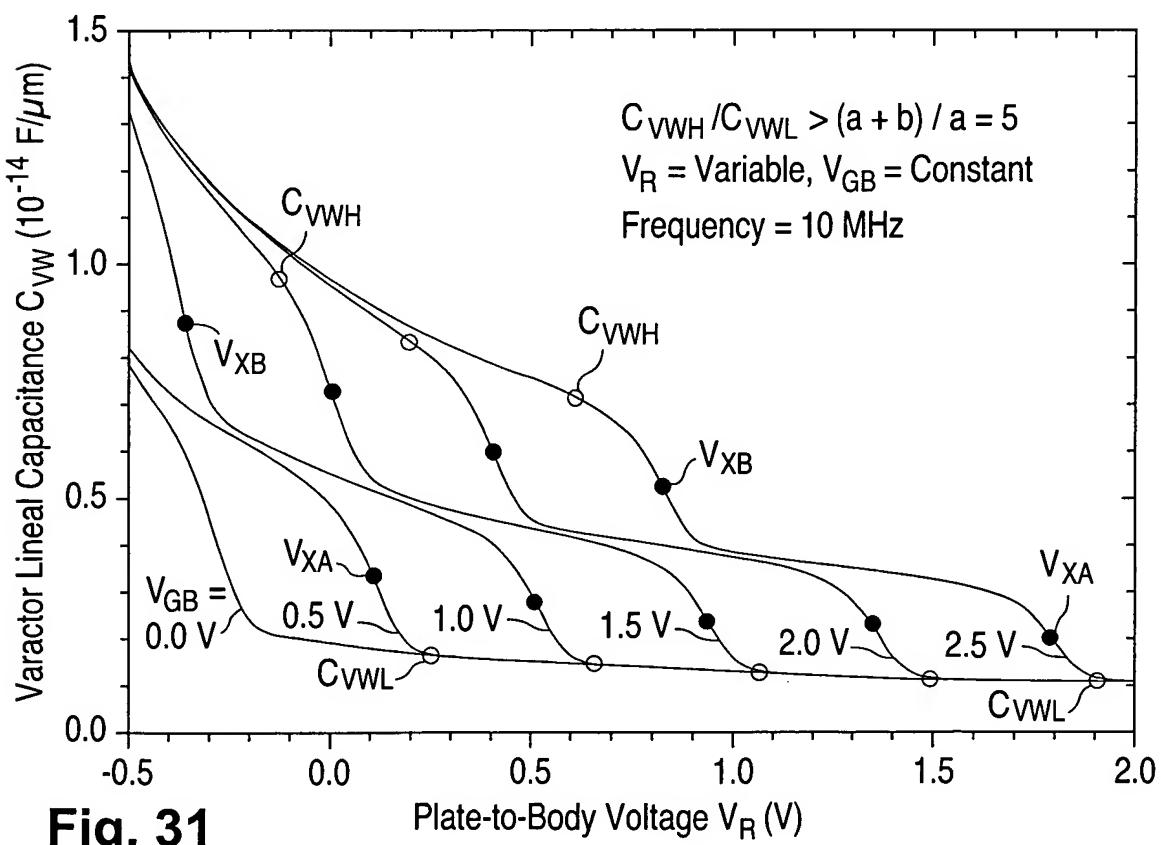


Fig. 31

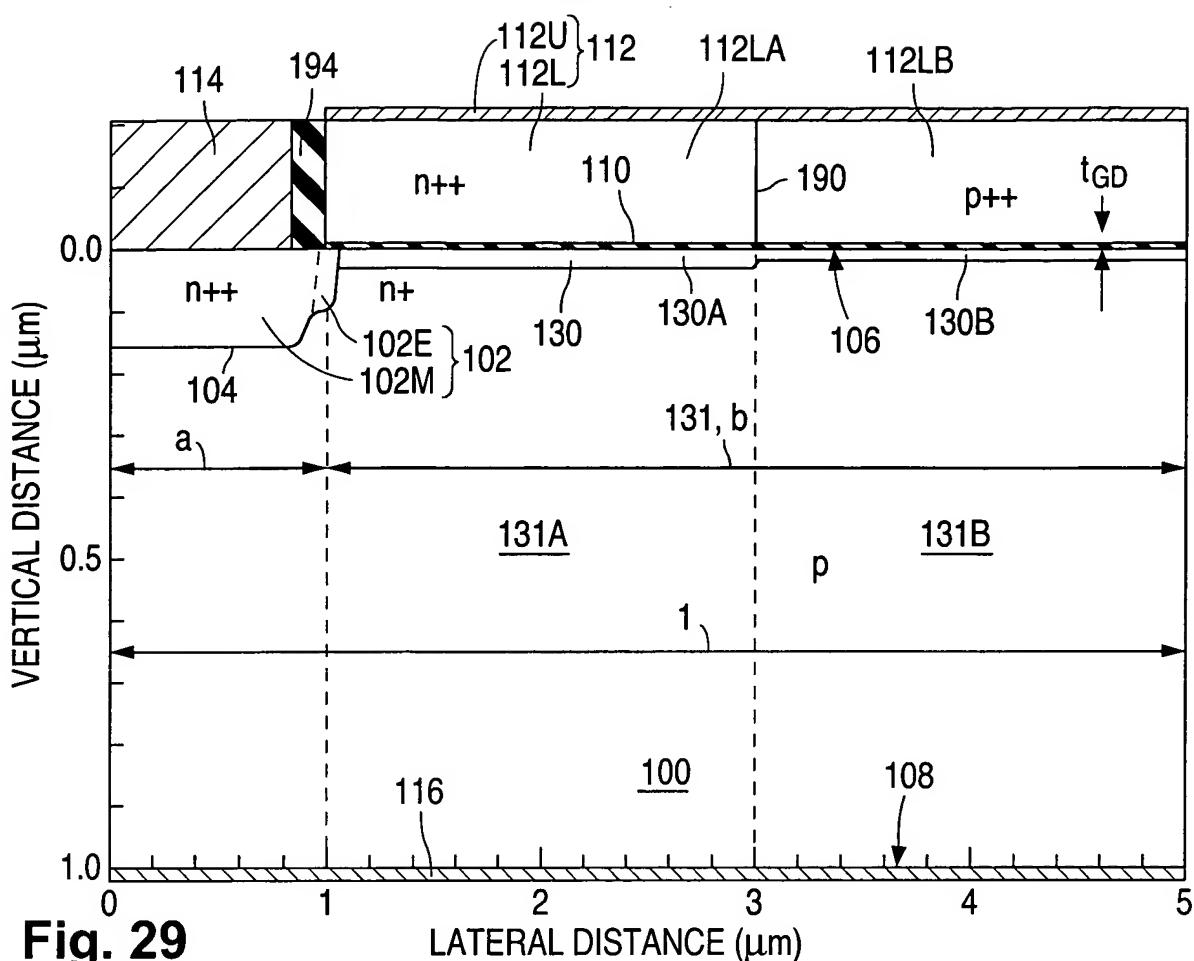


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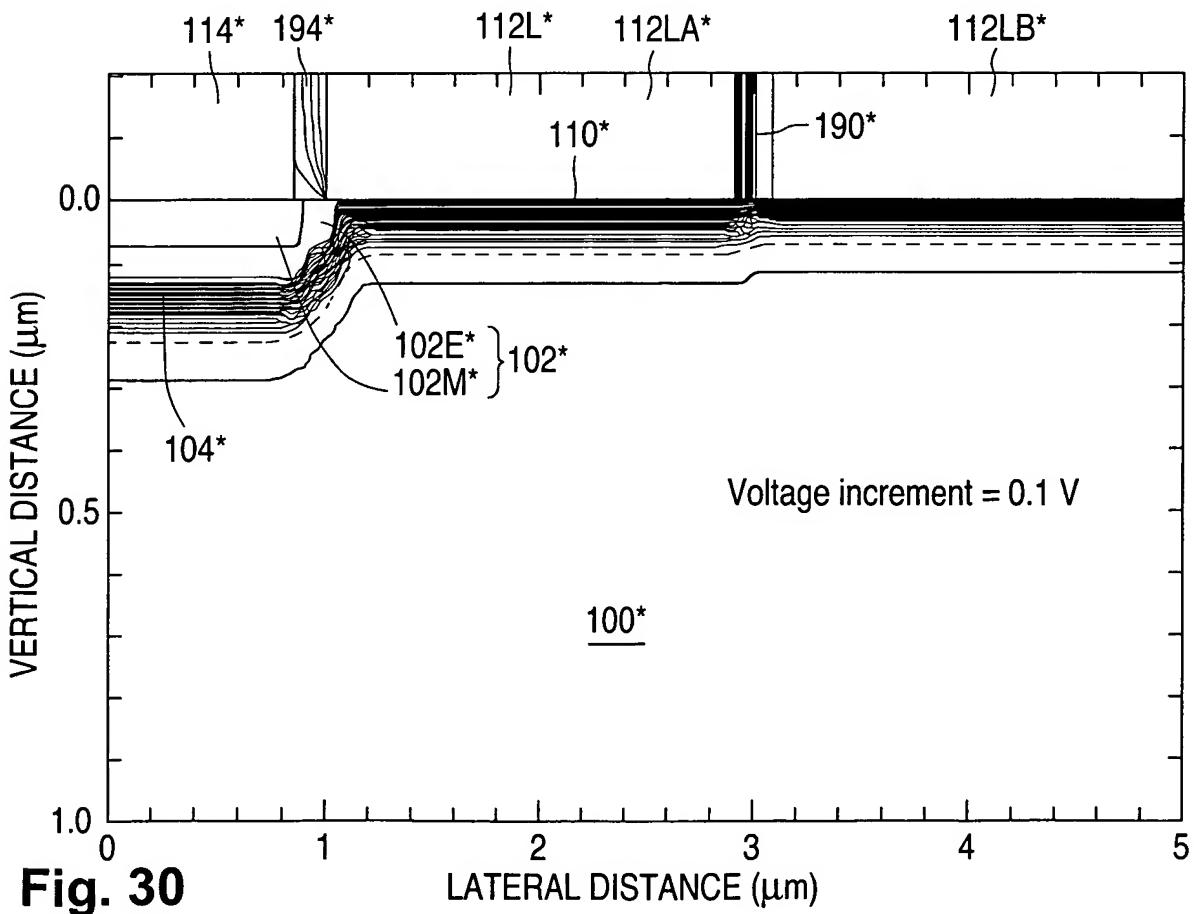


Fig. 30

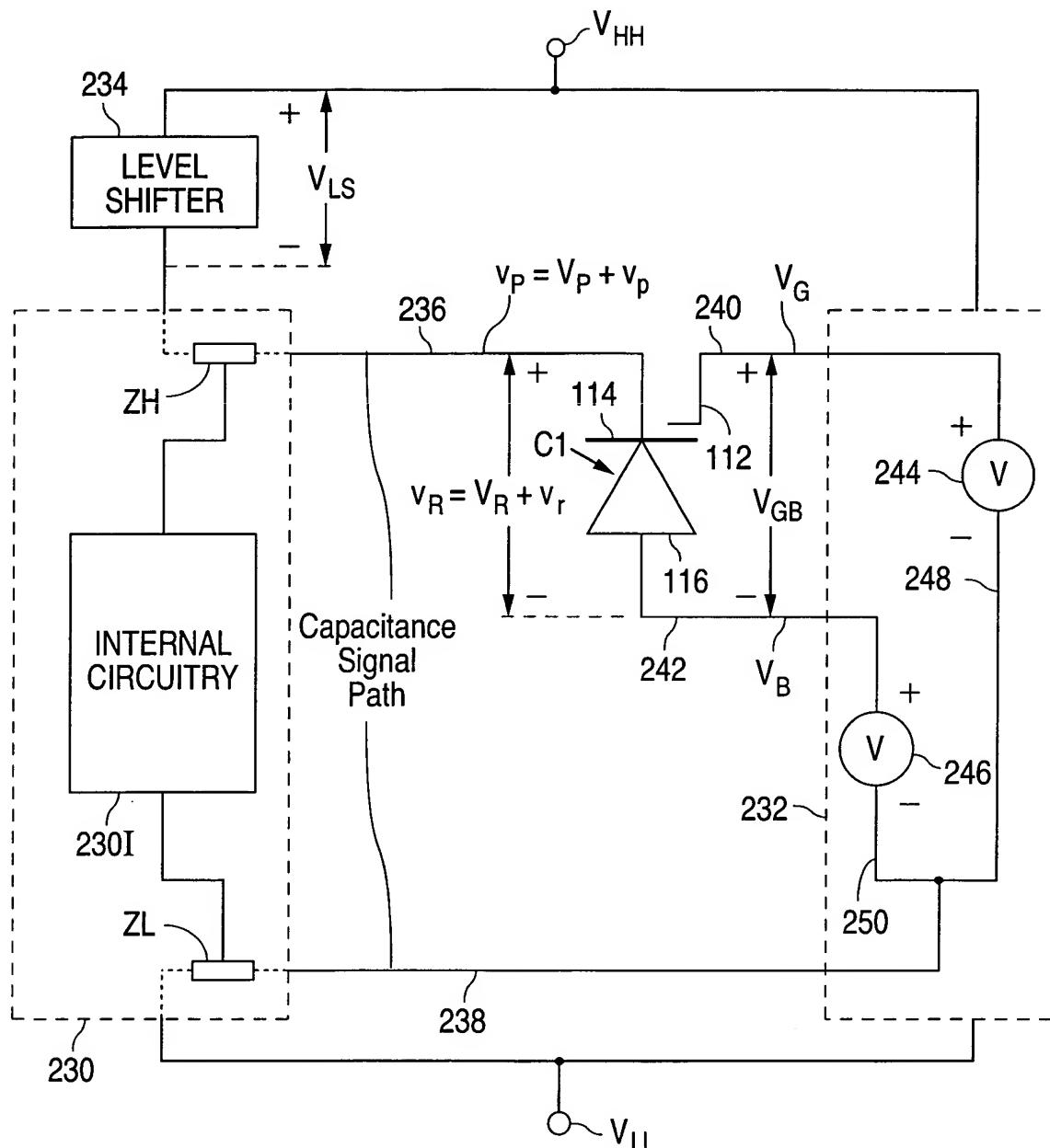


Fig. 32

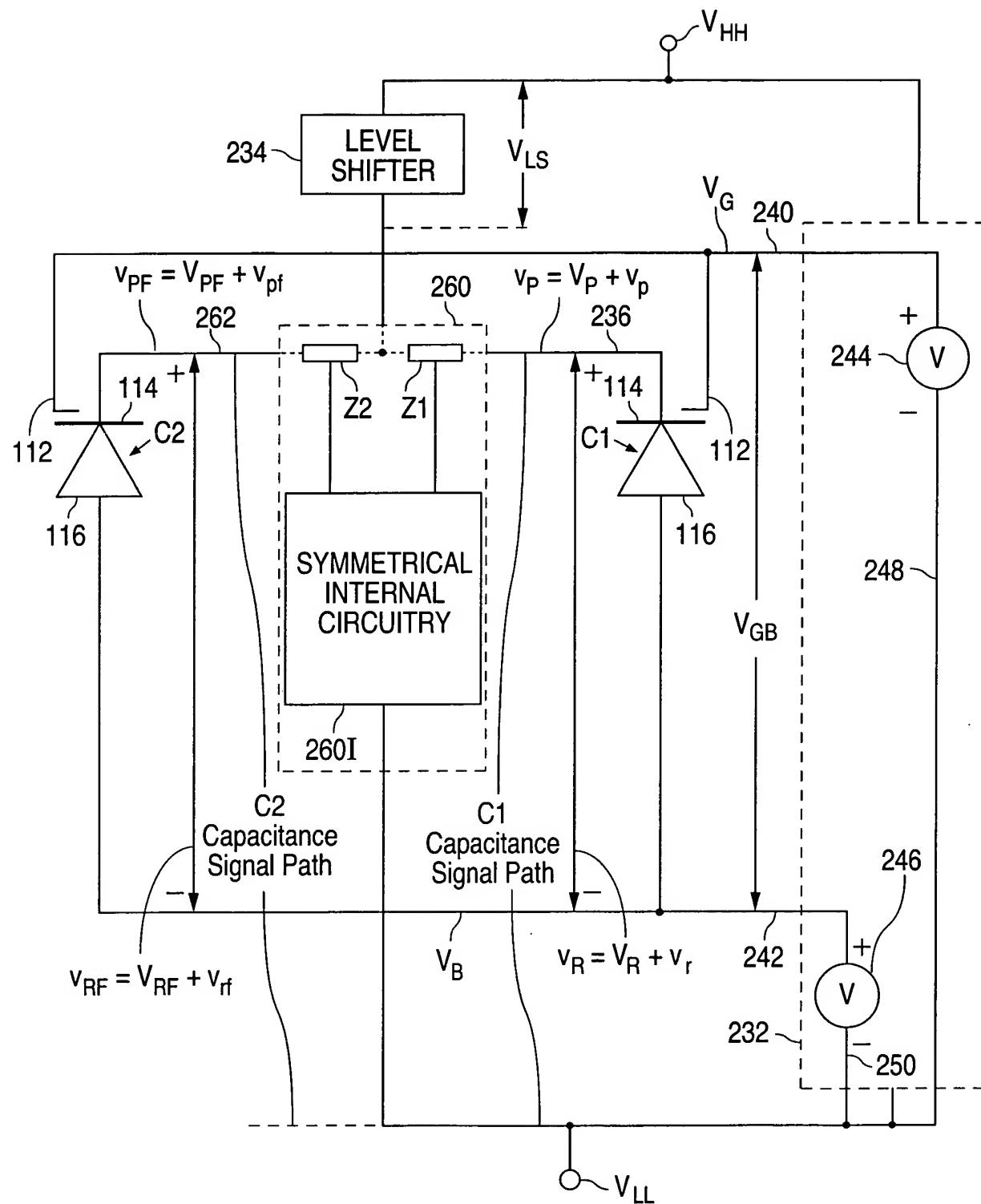


Fig. 33

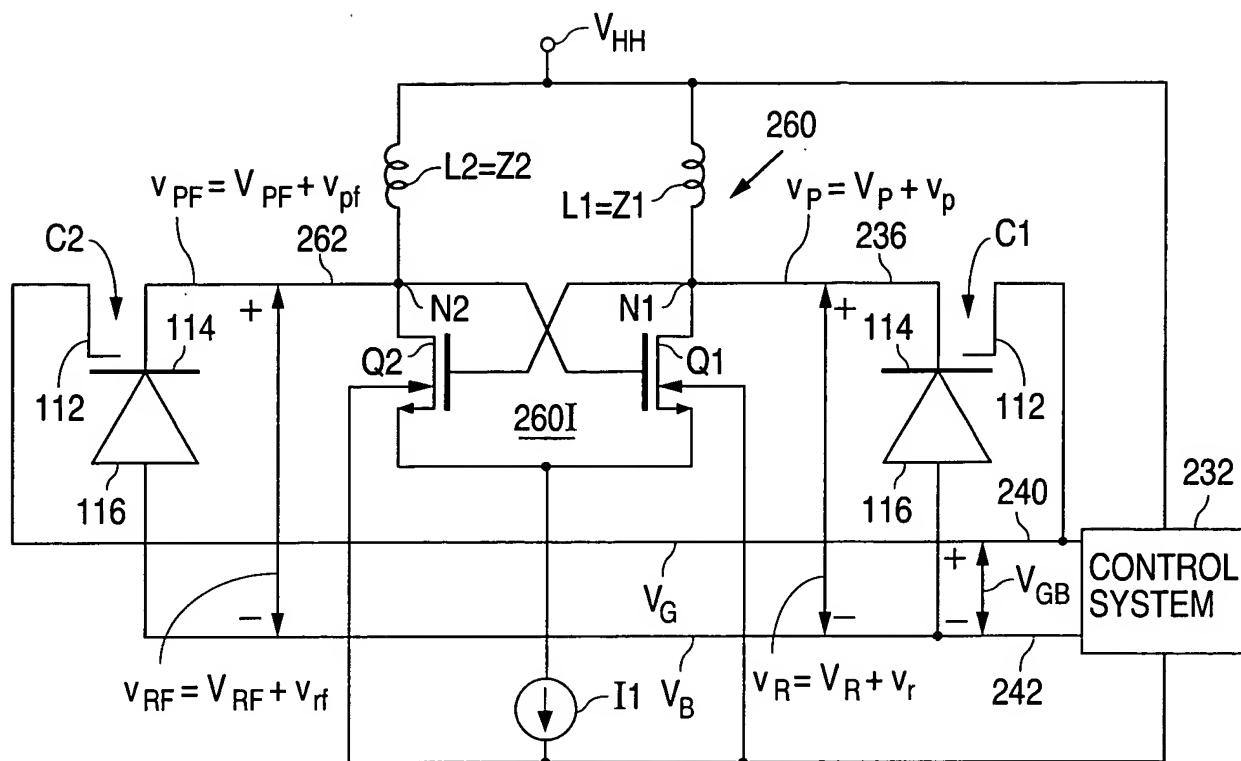


Fig. 34a

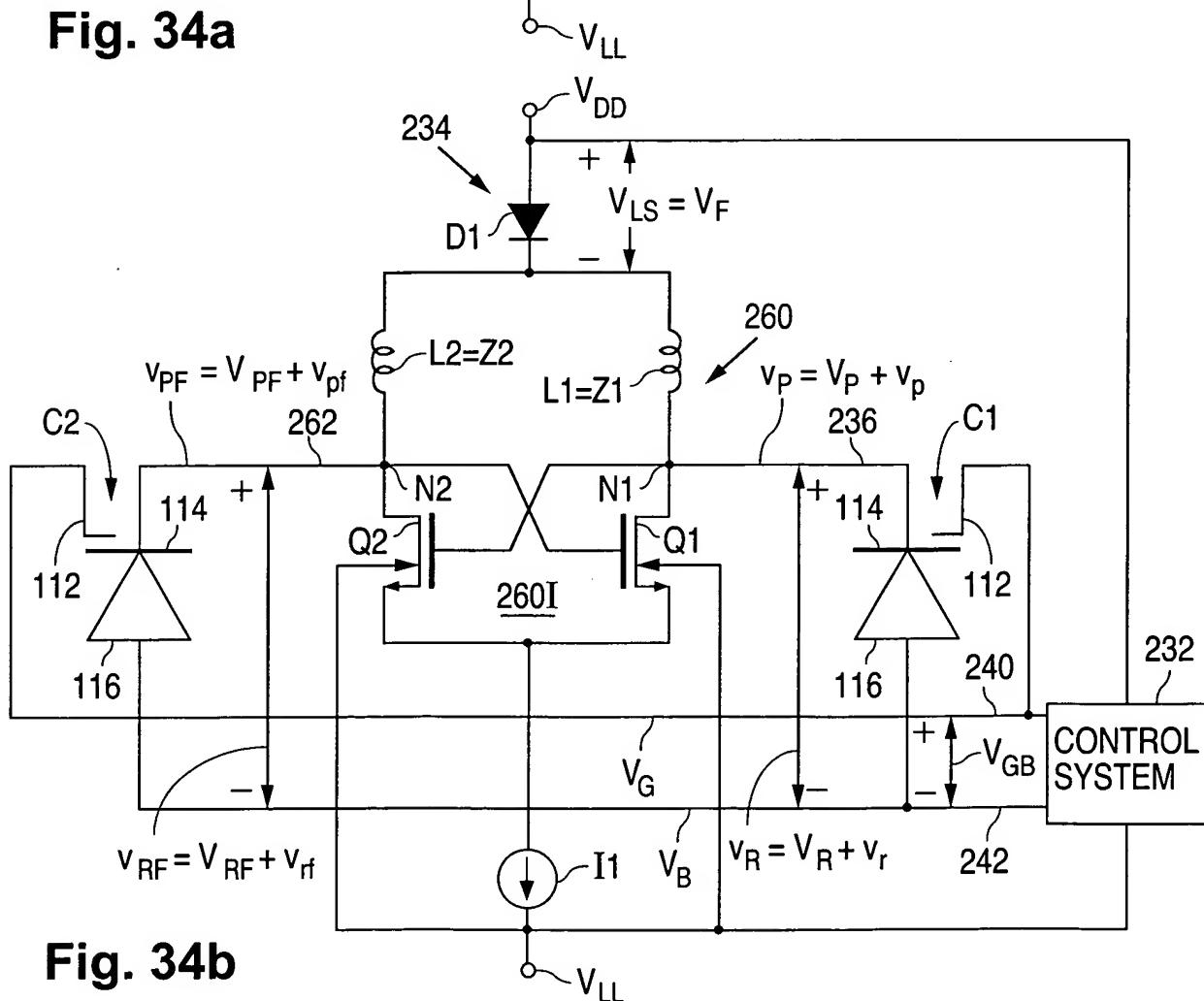


Fig. 34b

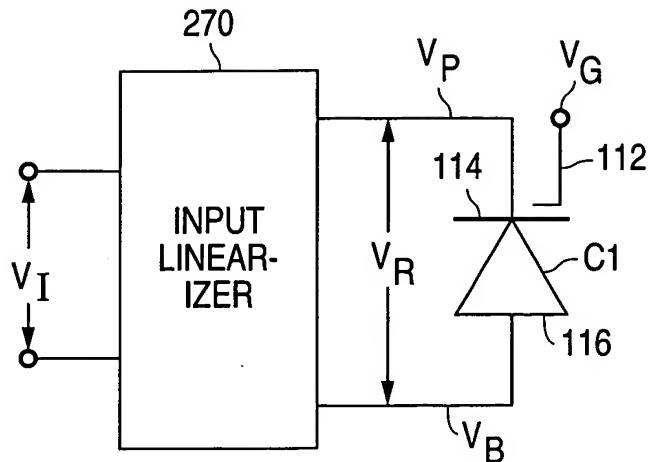


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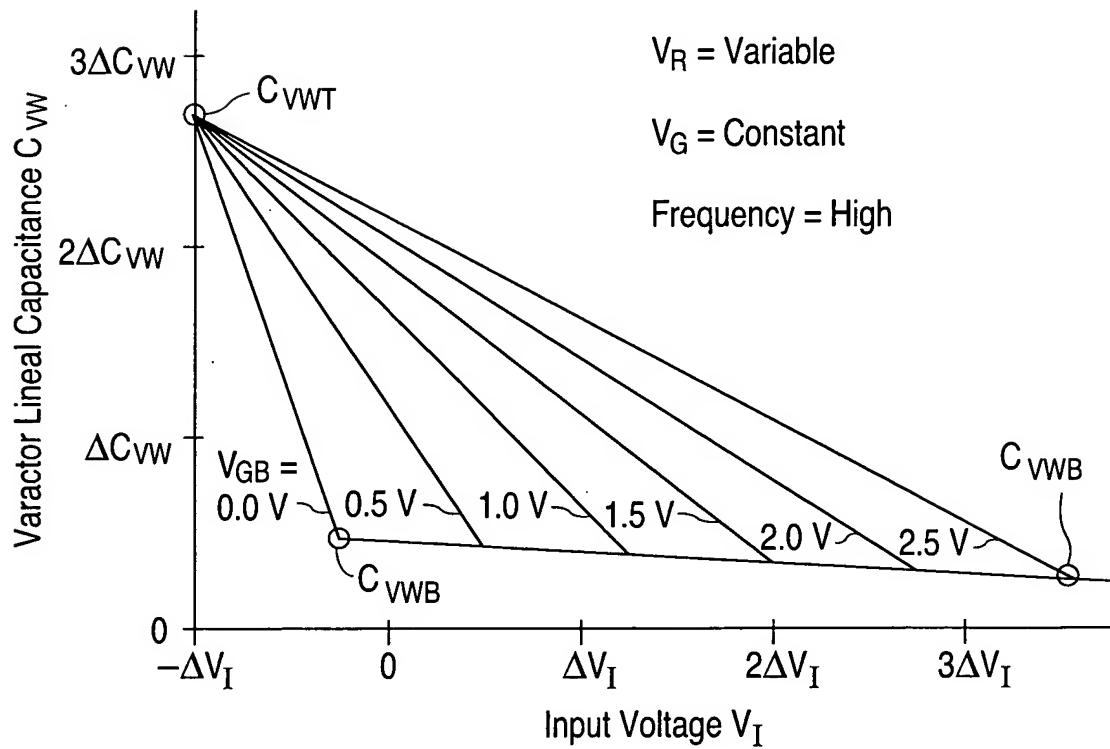


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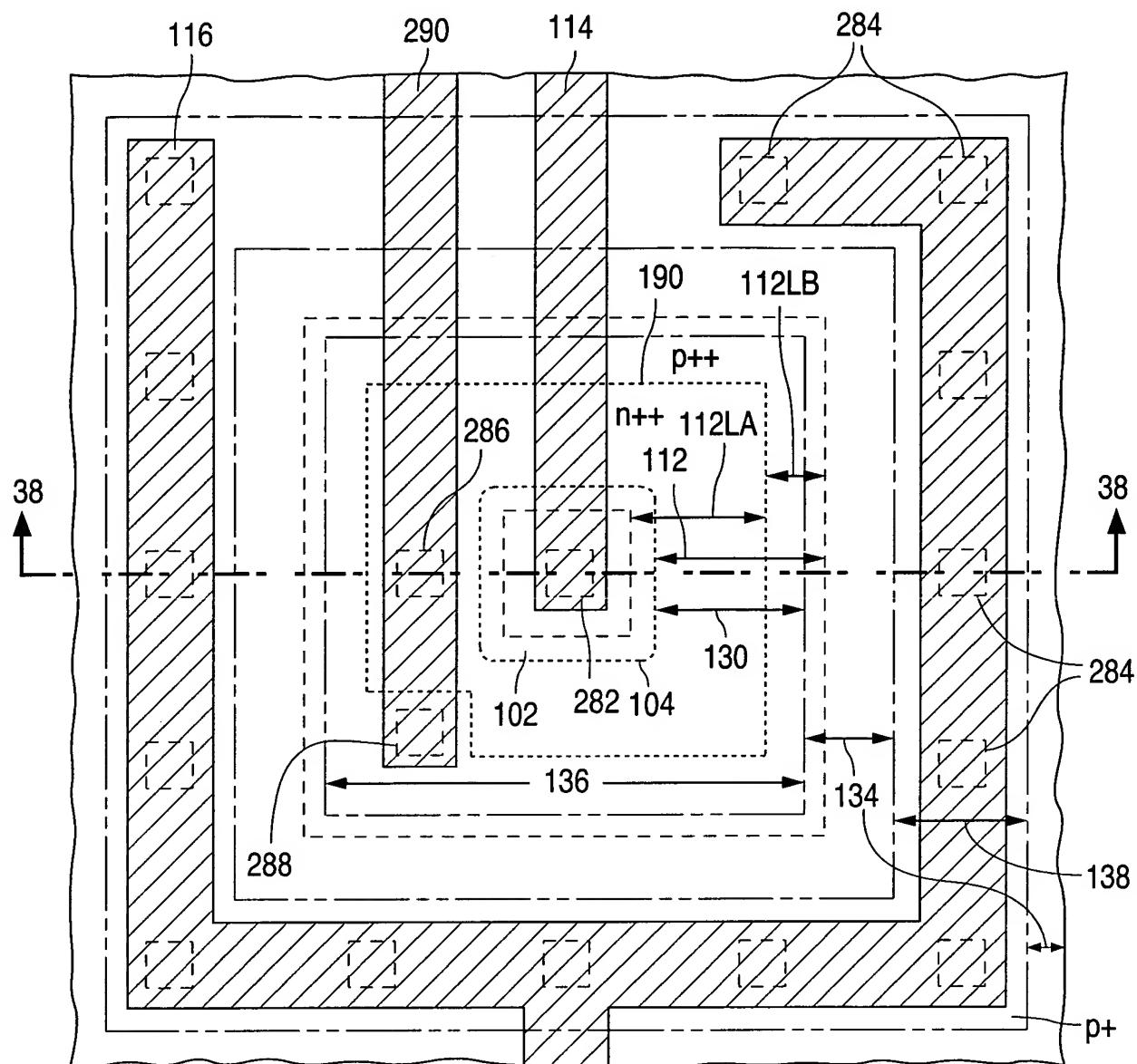


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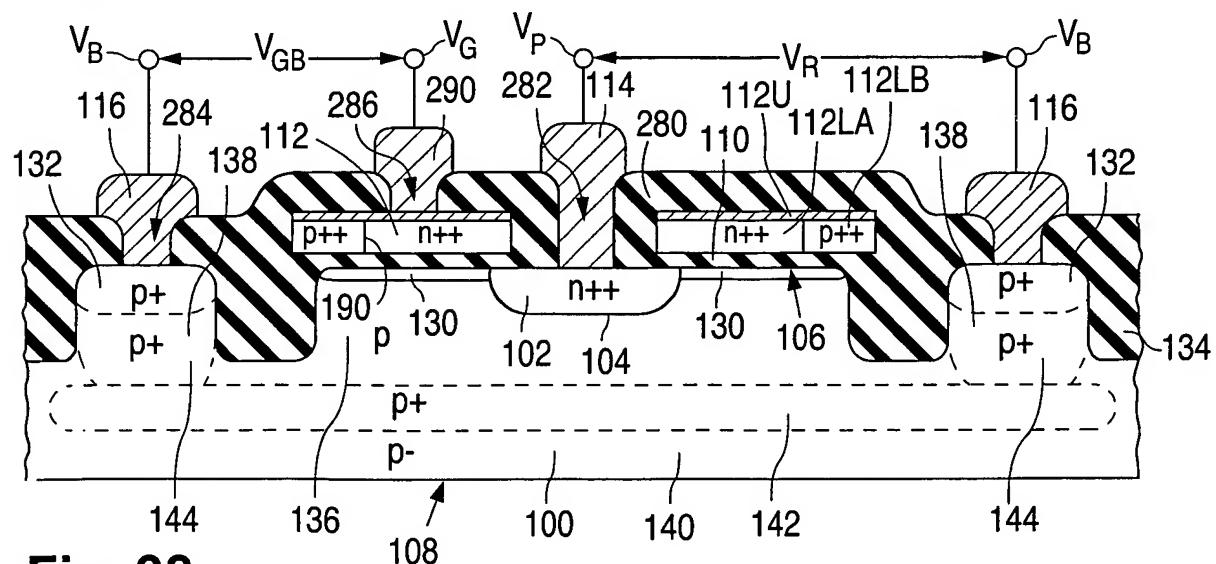


Fig. 38